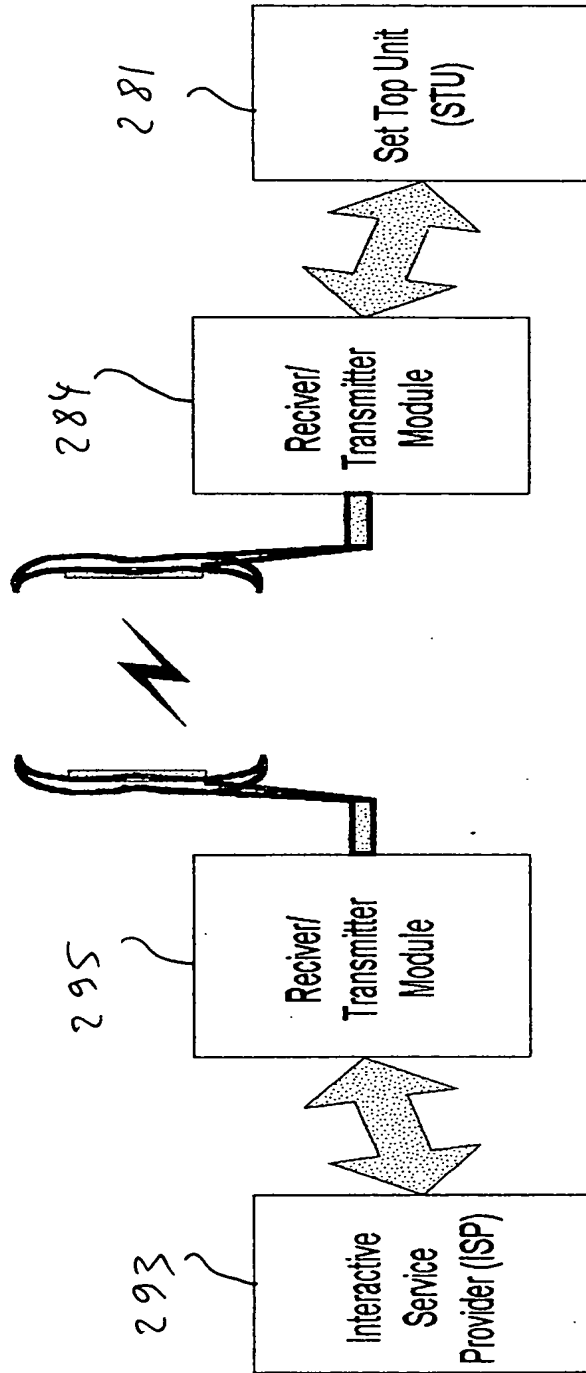


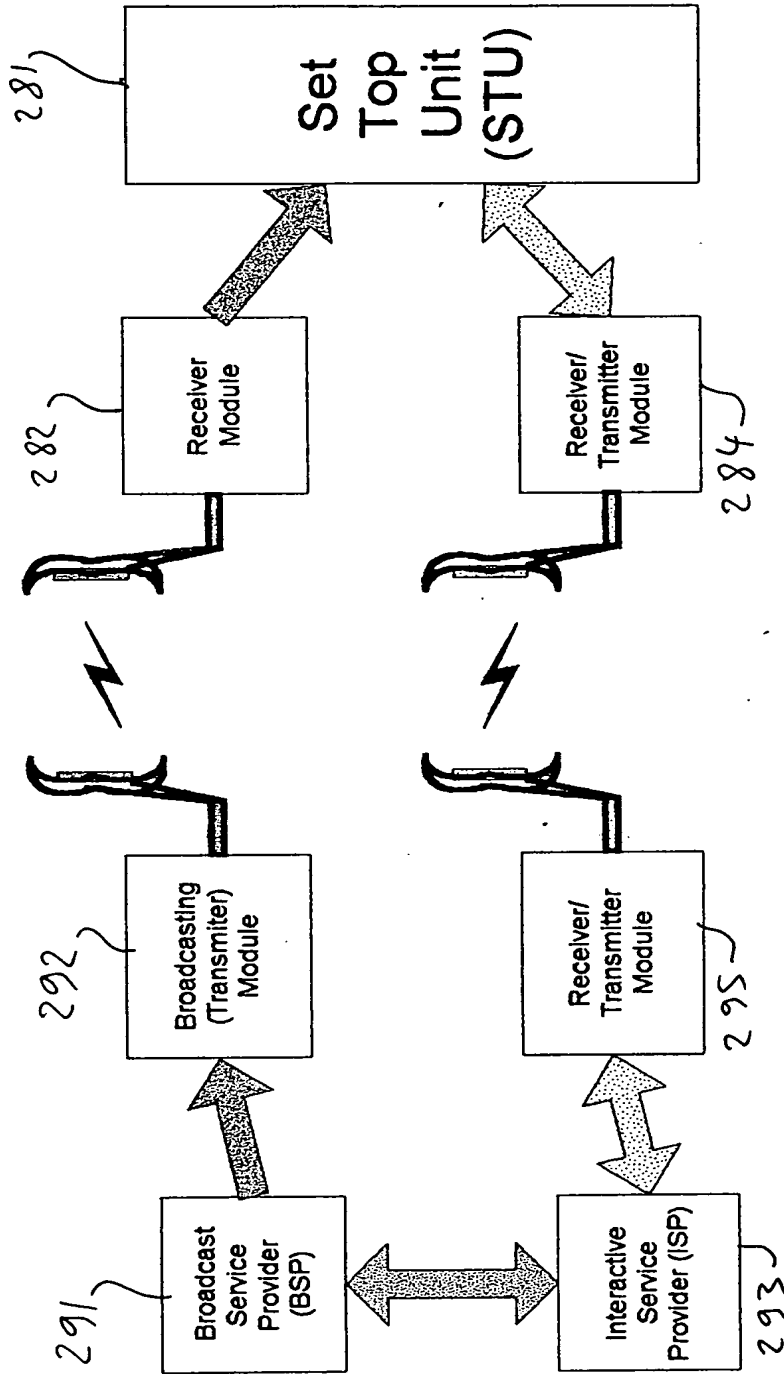
- DownLink - DVBT
- UpLink - OFDMA/TDMA

Fig. 1



- DownLink - DVBT
- UpLink - In Band OFDMA/TDMA

Fig. 2



- DownLink - DVBT, Out Of Band OFDM/TDM
- UpLink - OFDMA/TDMA

Fig. 3

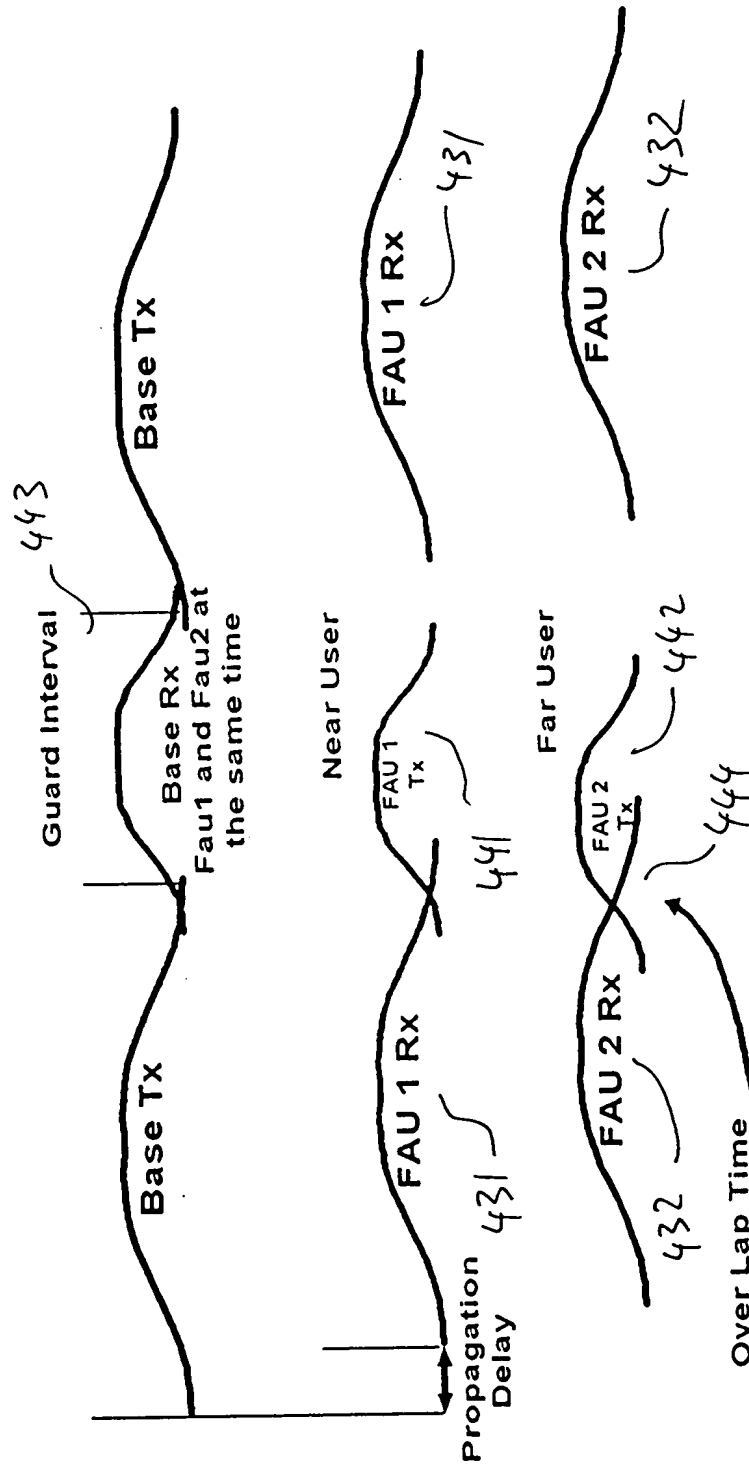


Fig. 4

UpLink

DownLink

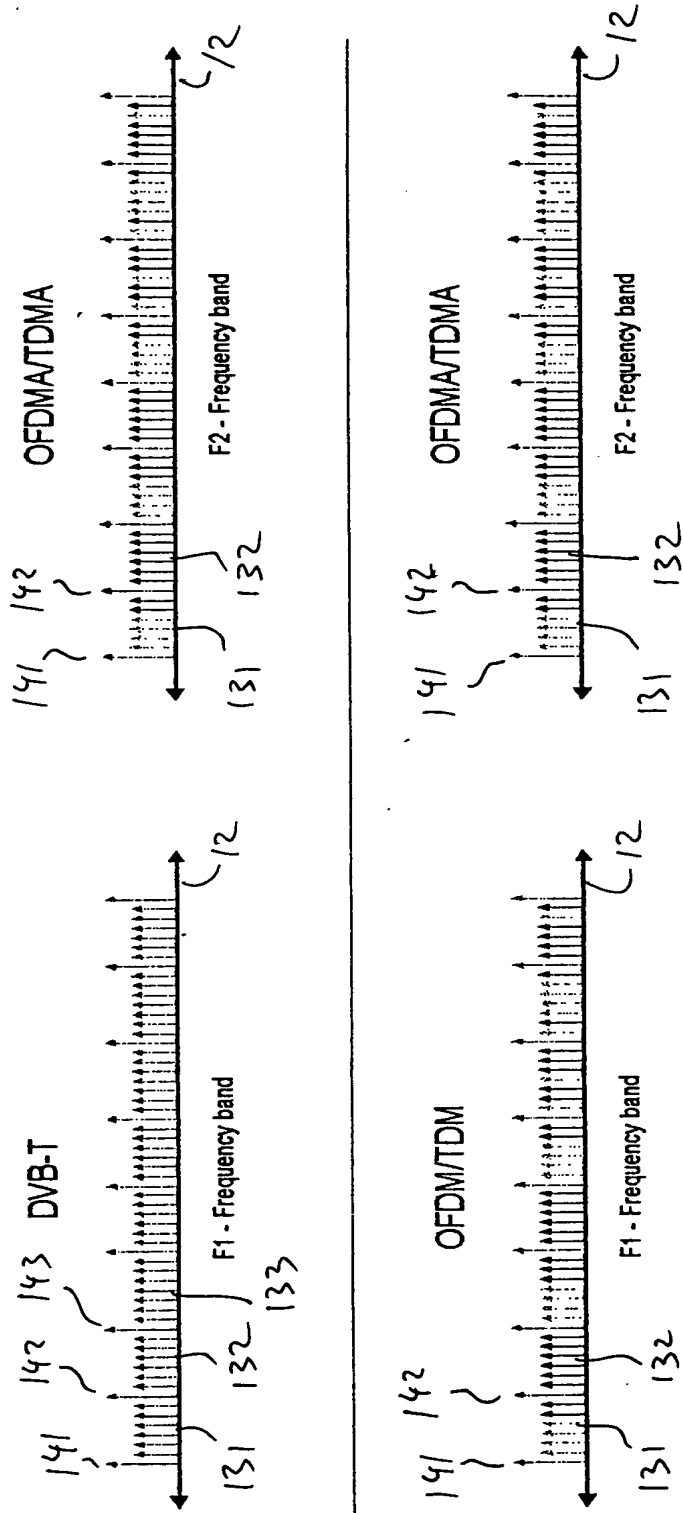


Fig. 5

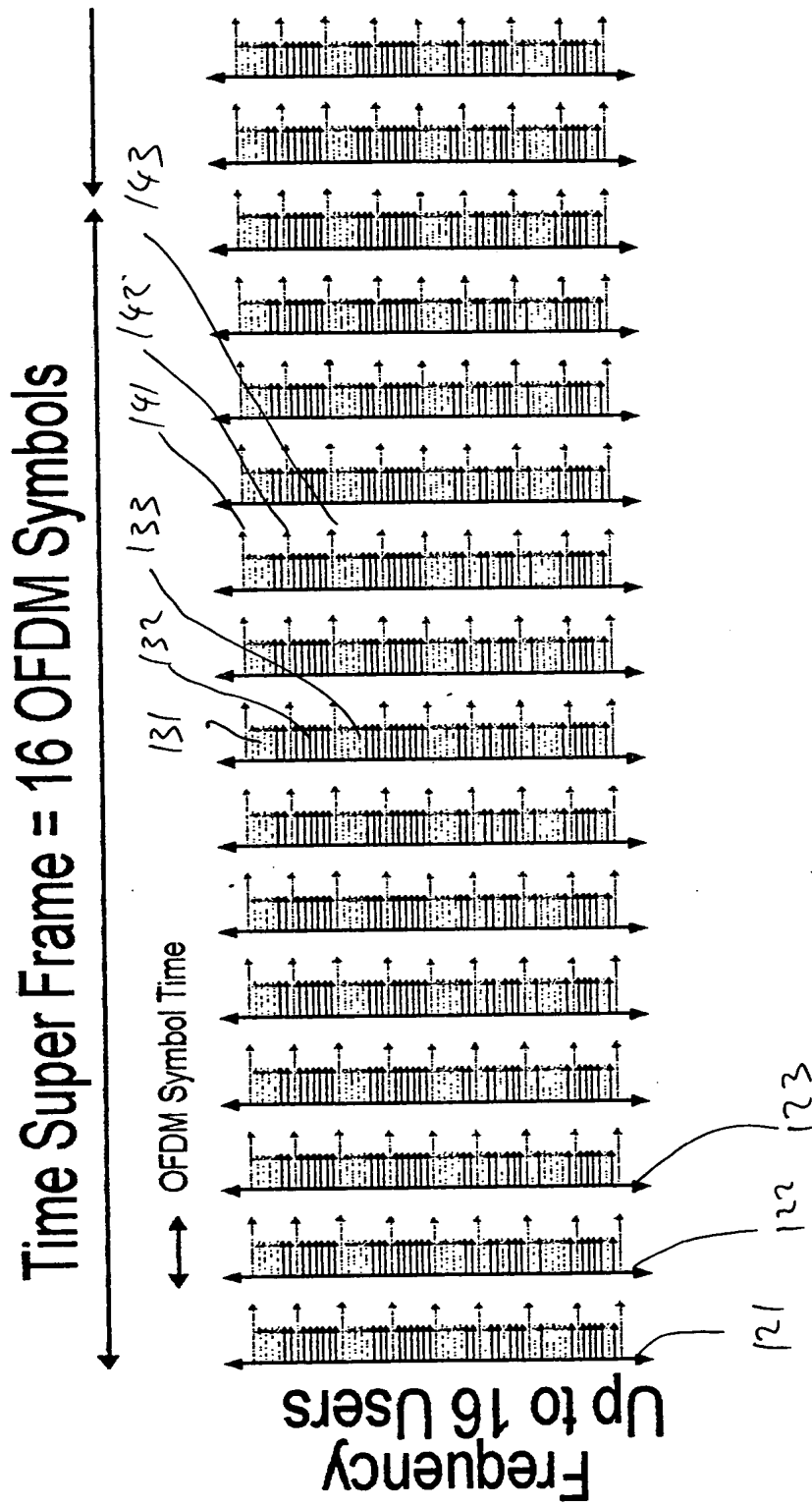


Fig. 6

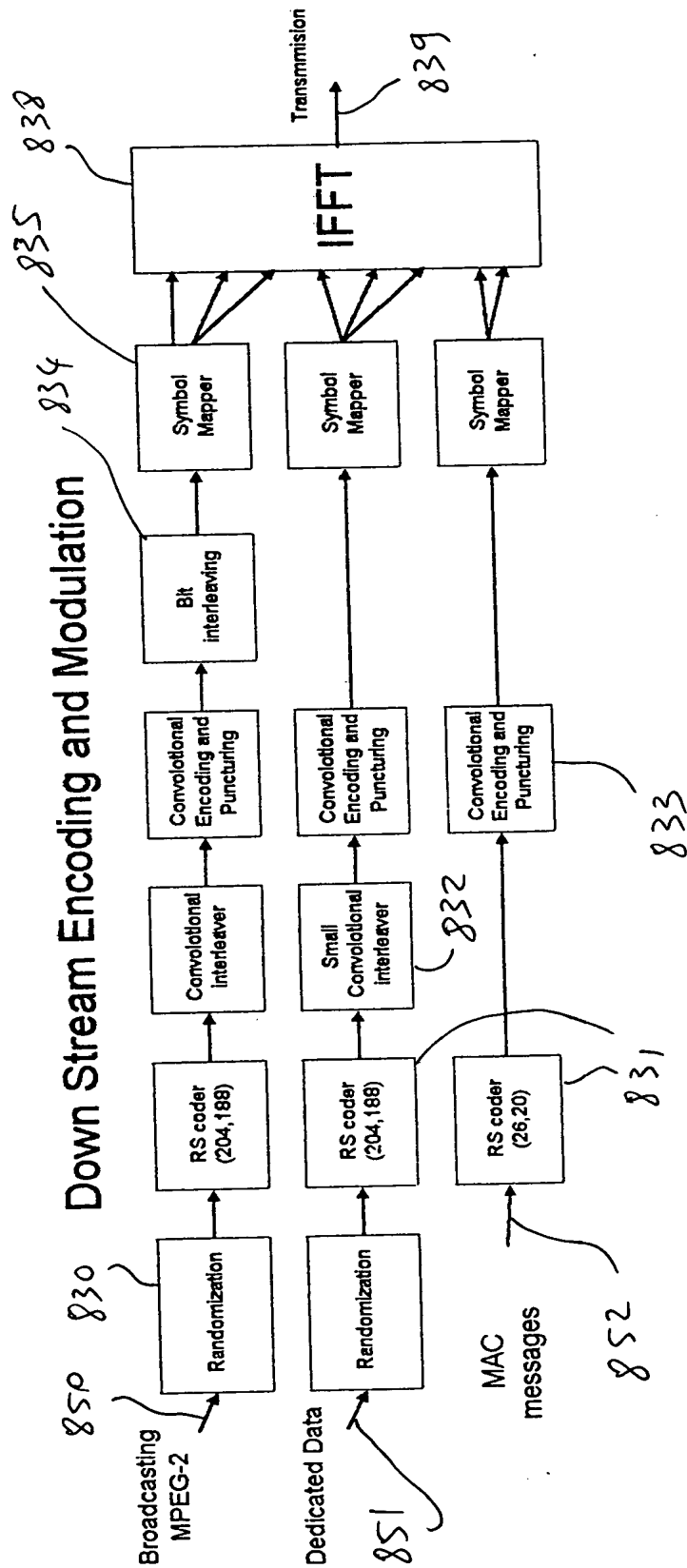


Fig. 7

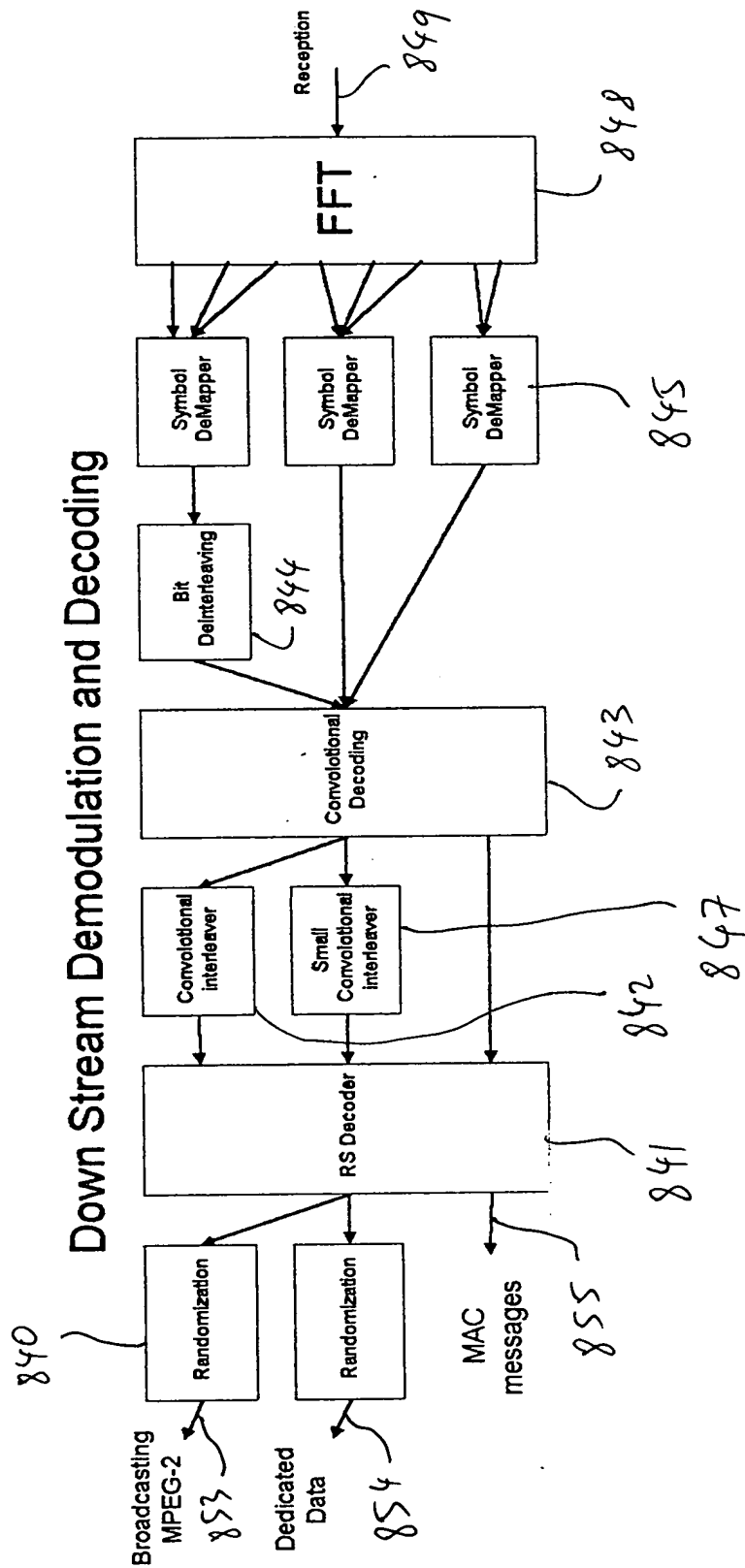


Fig. 8

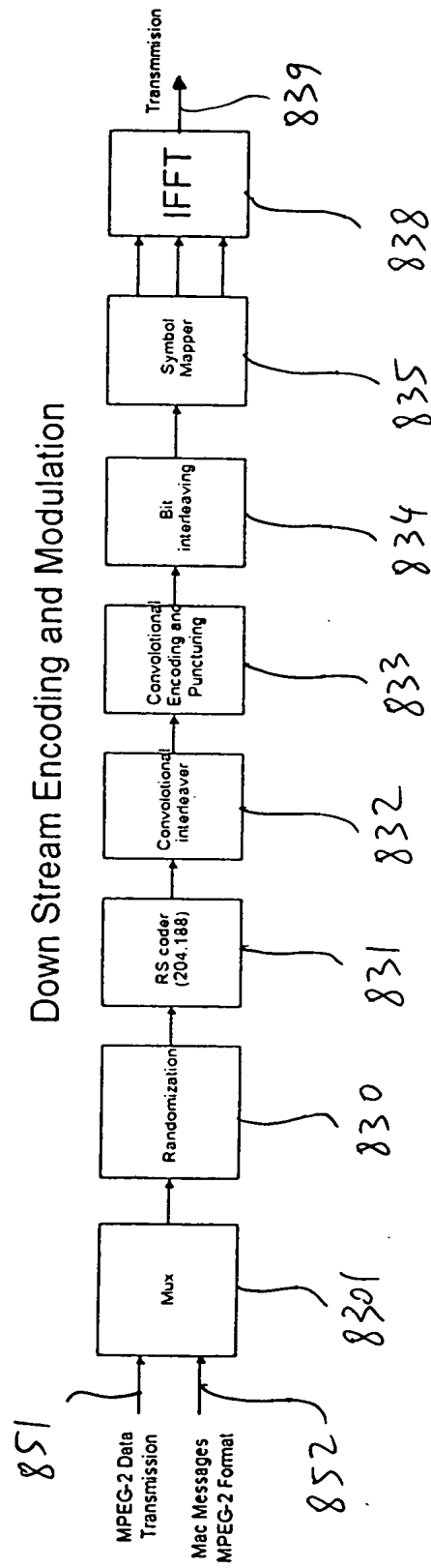


Fig. 9

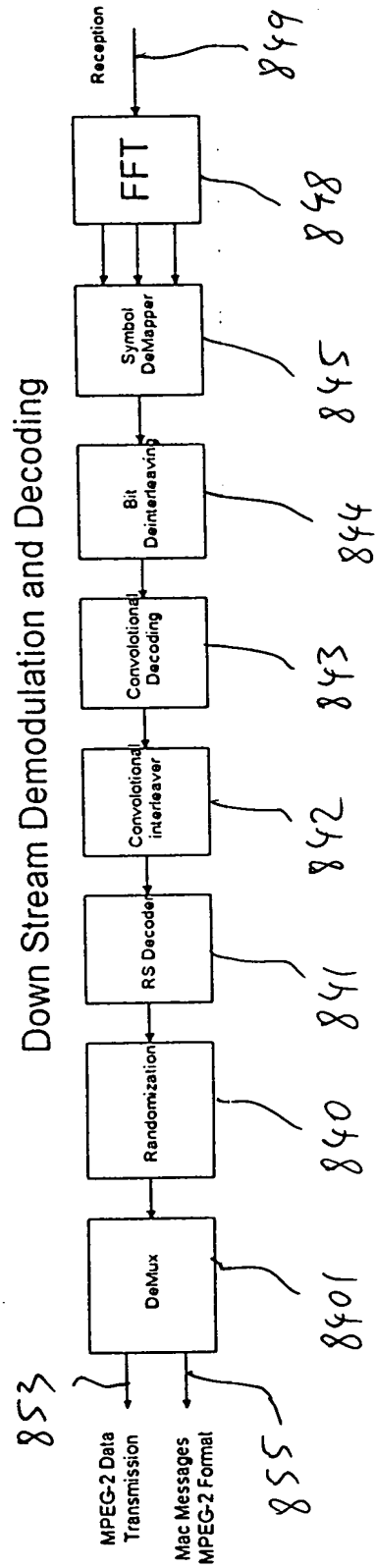


Fig. 10

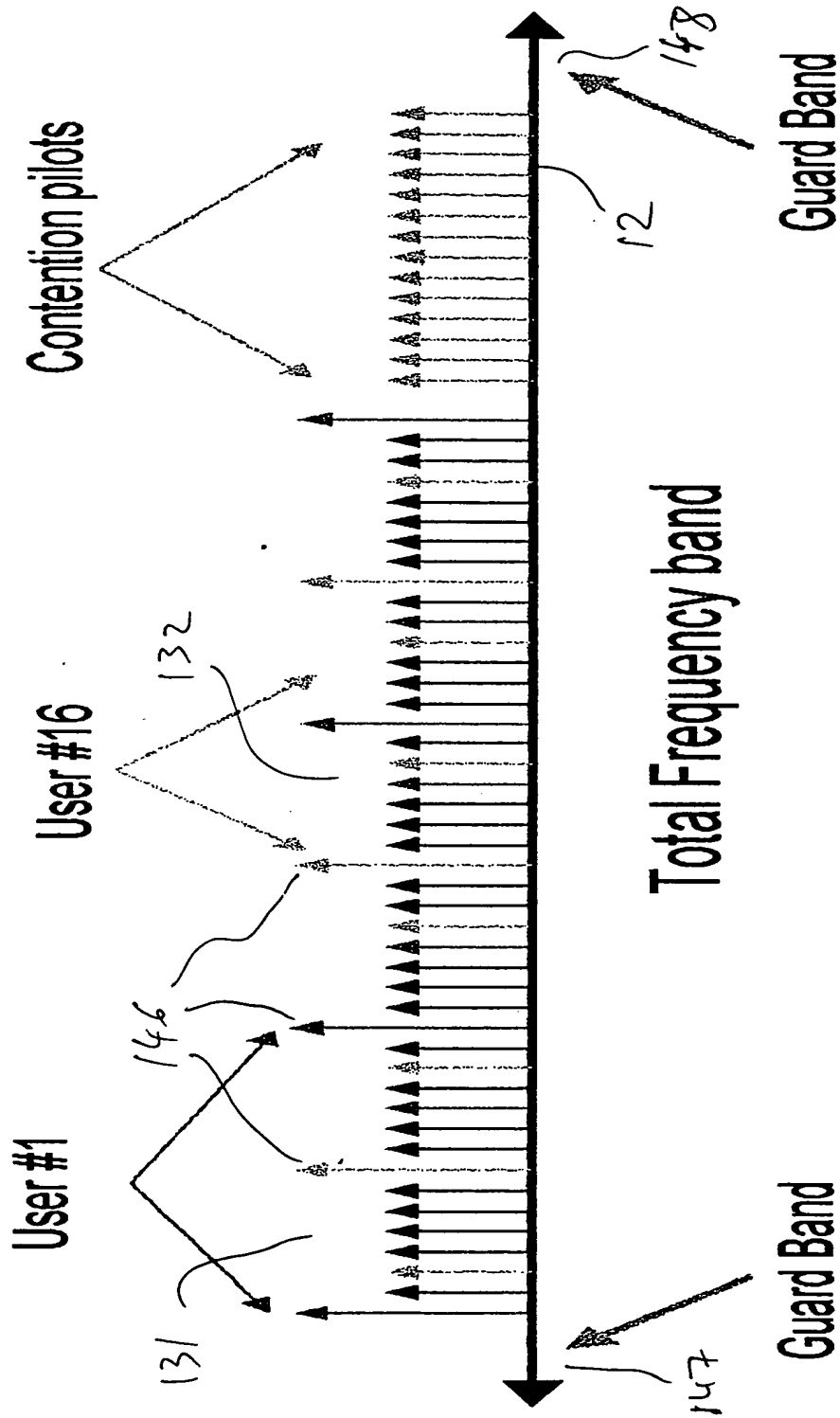


Fig. 11

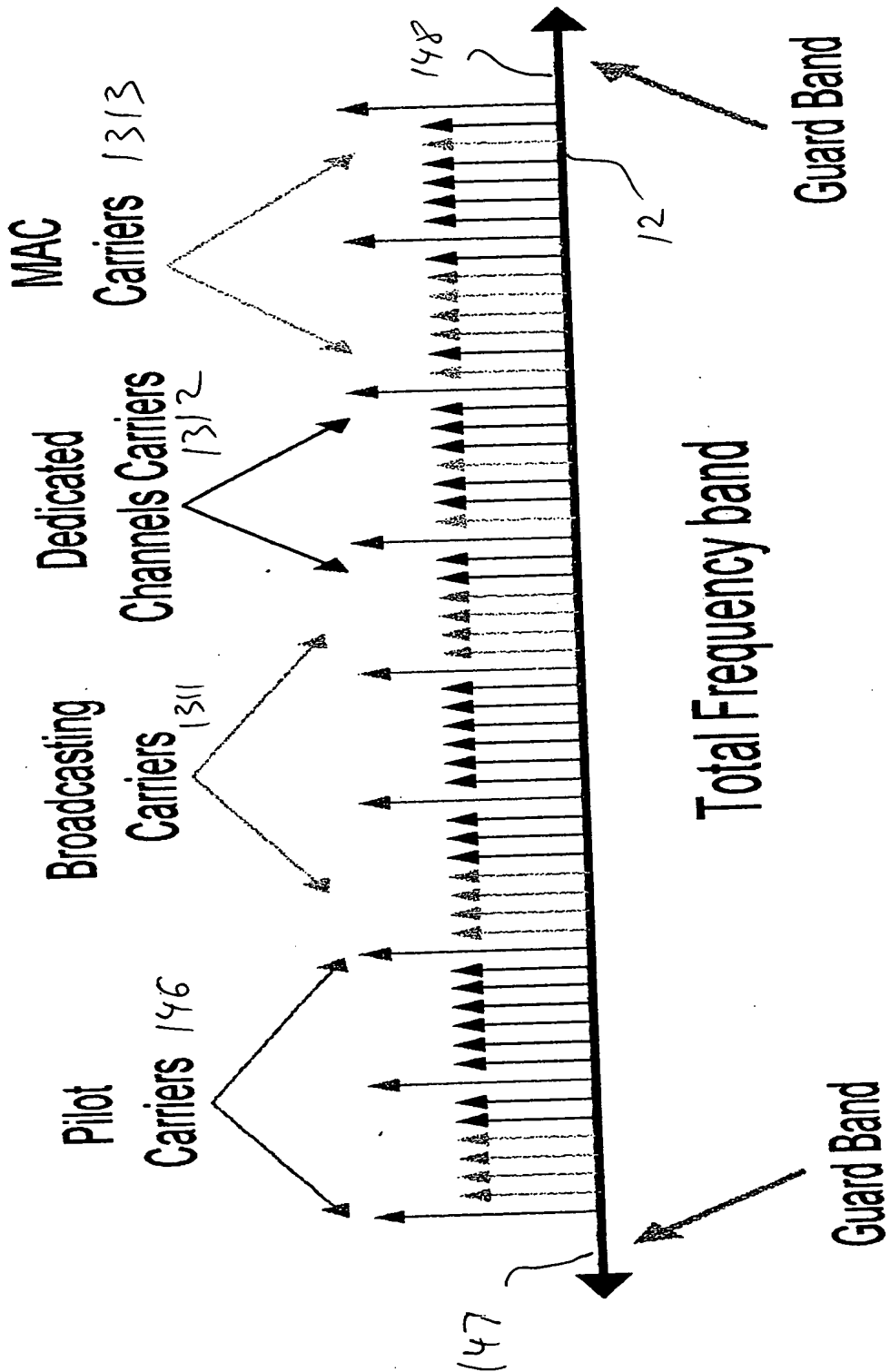


Fig. 12

Narrowband Interference Rejection

- User SubCarriers Blocks are Allocated by IFFT & FFT .
- Easy to Avoid/Reject Narrowband Dominant Interference .
- Less Interfered Part of the Carrier Can Still Be Used .

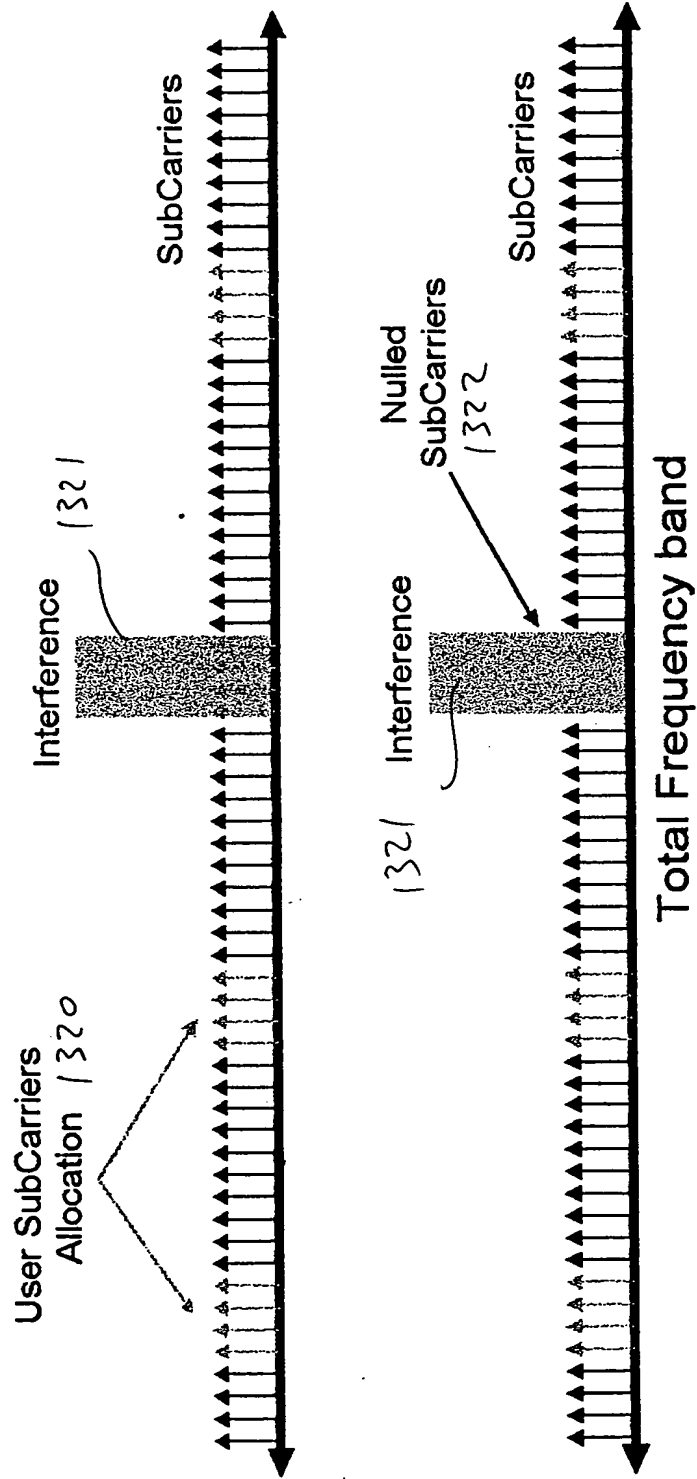


Fig. 13

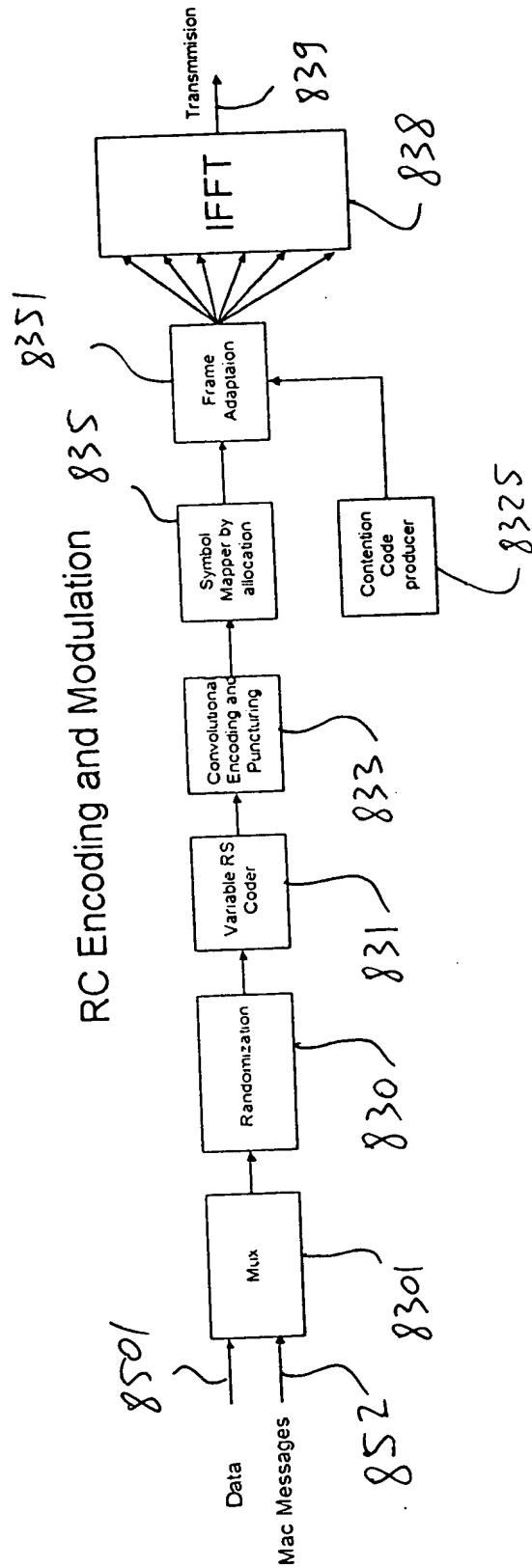


Fig. 14

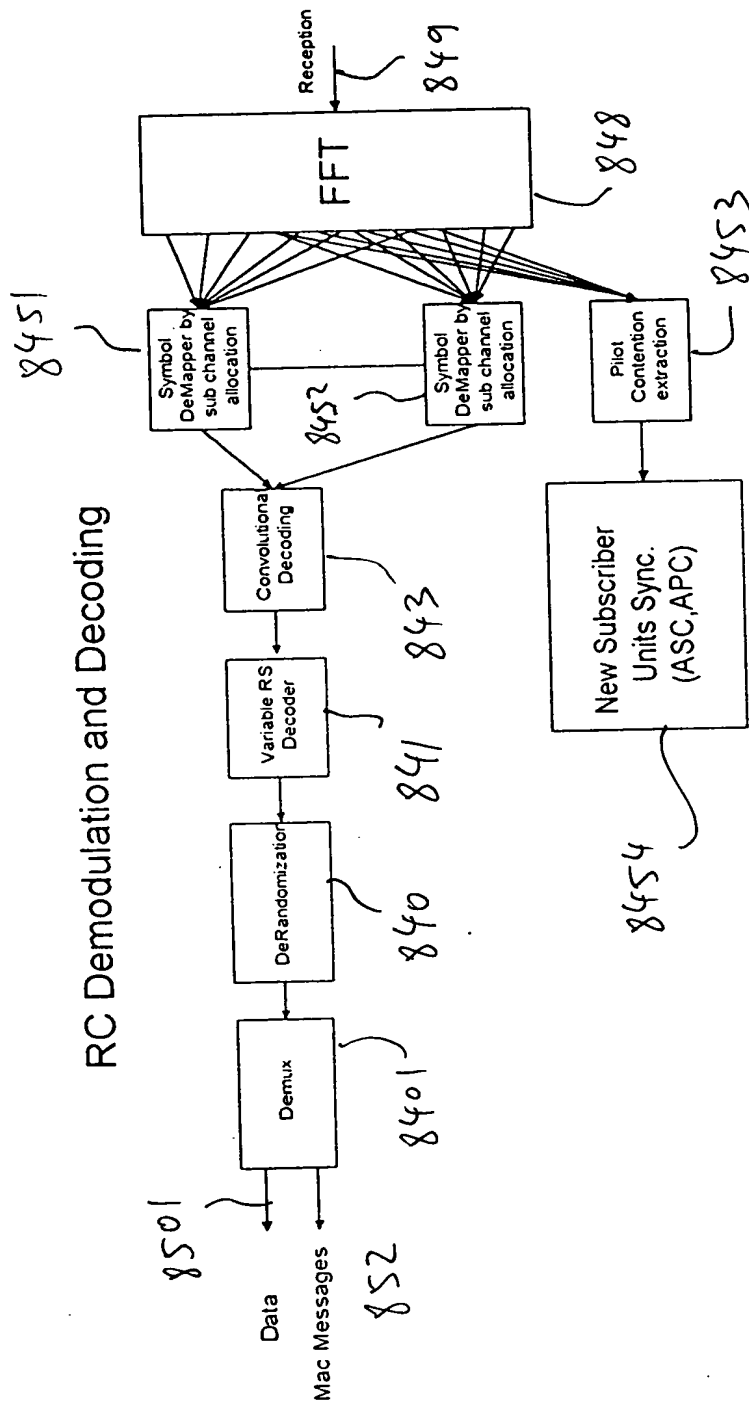
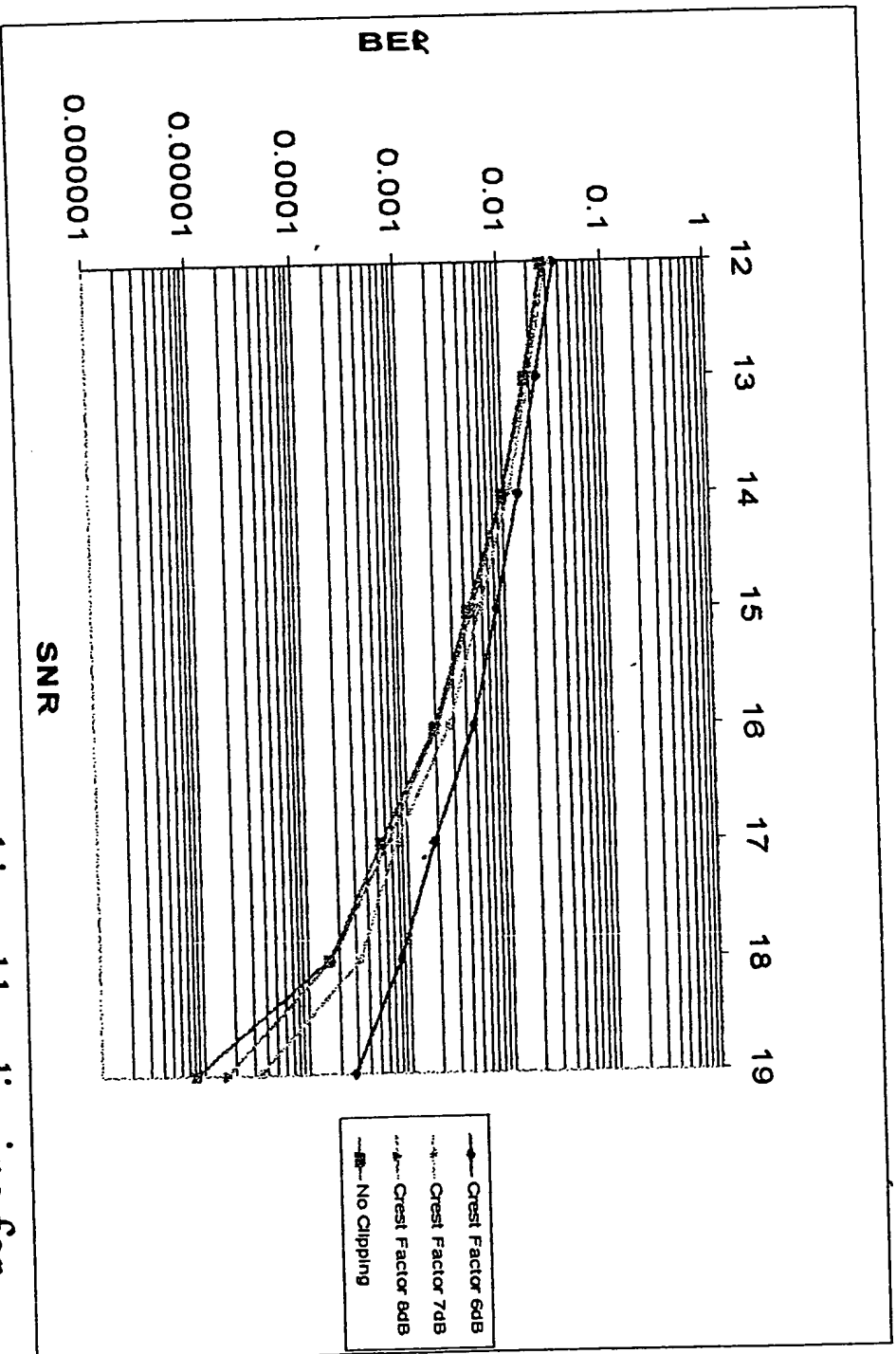


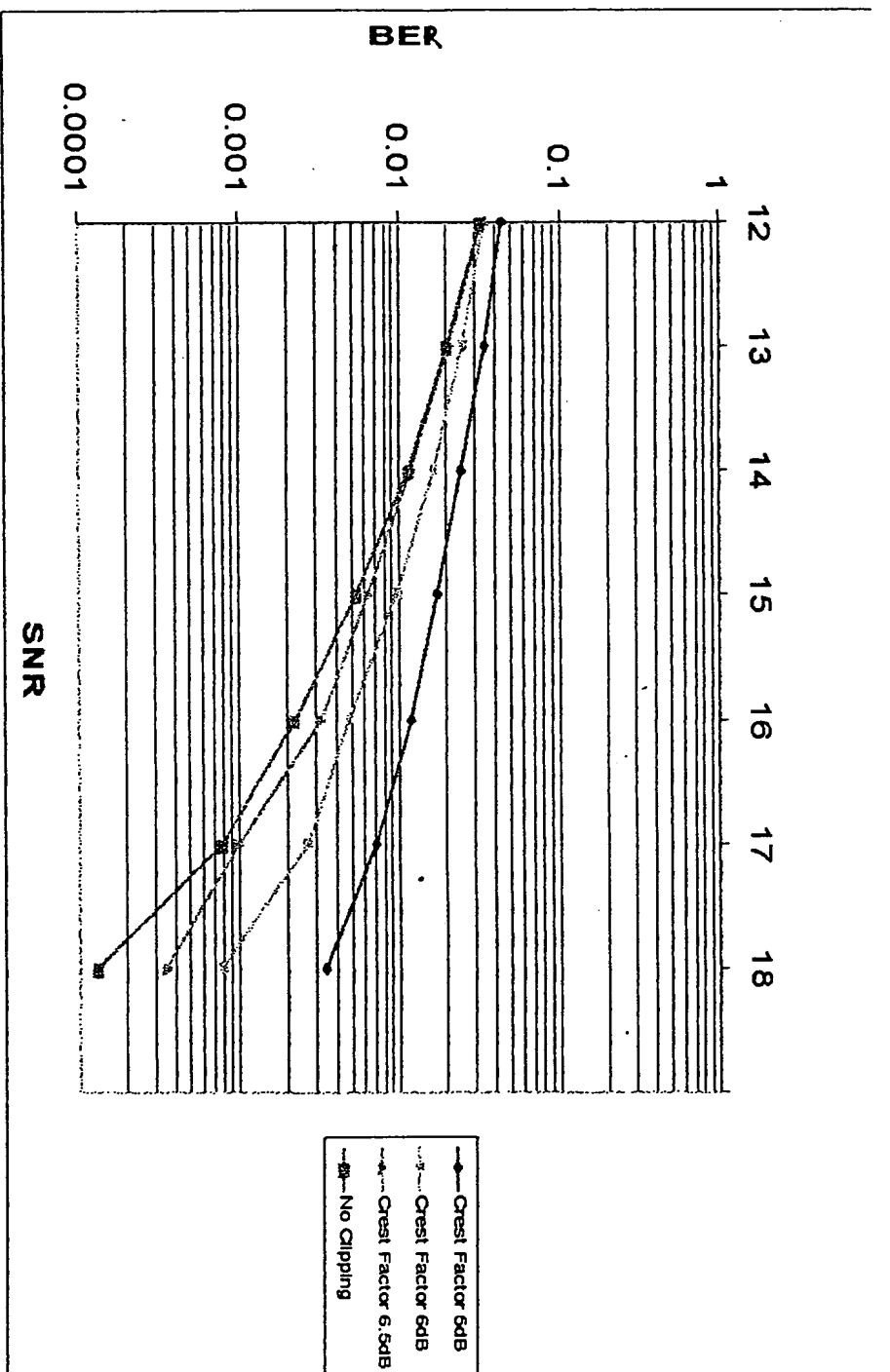
Fig. 15



BER/SNR for different Crest Factor achieved by clipping for
a DVB-T 16QAM OFDM Symbol

Fig. 16

09624237 1072400



BER/SNR for different Crest Factor achieved by clipping for
an Up Stream 16QAM OFDM Symbol

Fig. 17

09624237, 072400

- Rectangular Spectrum Shape (Brick Wall)
- Small Frequency Guard band

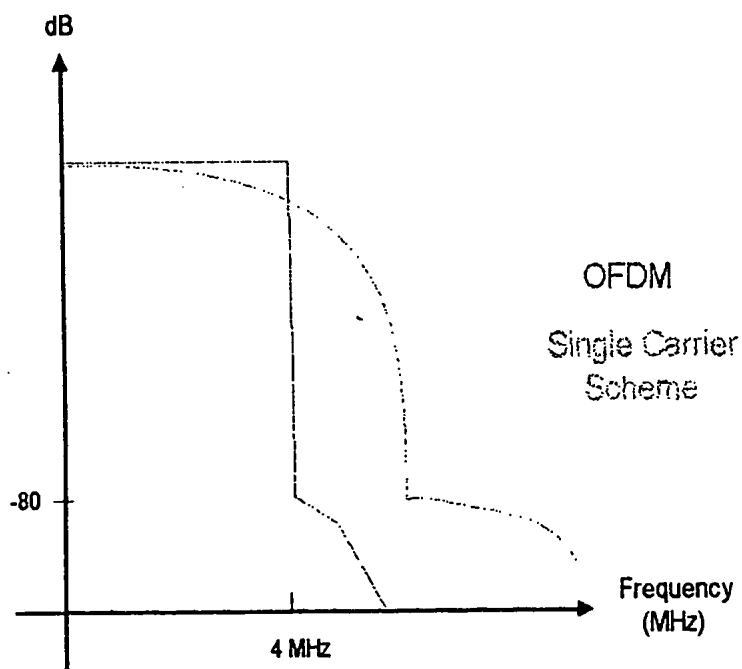


Fig. 18

Power level measured in a 4 kHz bandwidth,
where 0 dB corresponds to the total output power

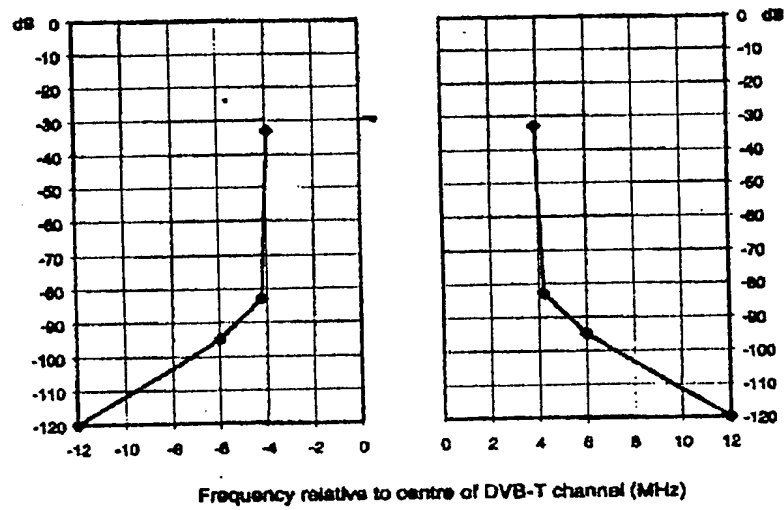
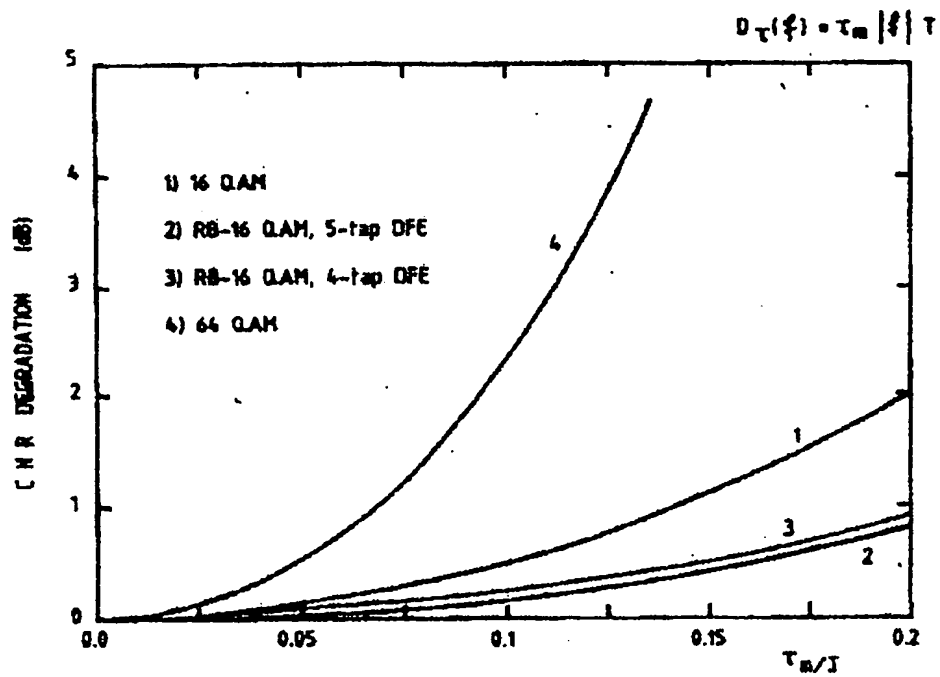
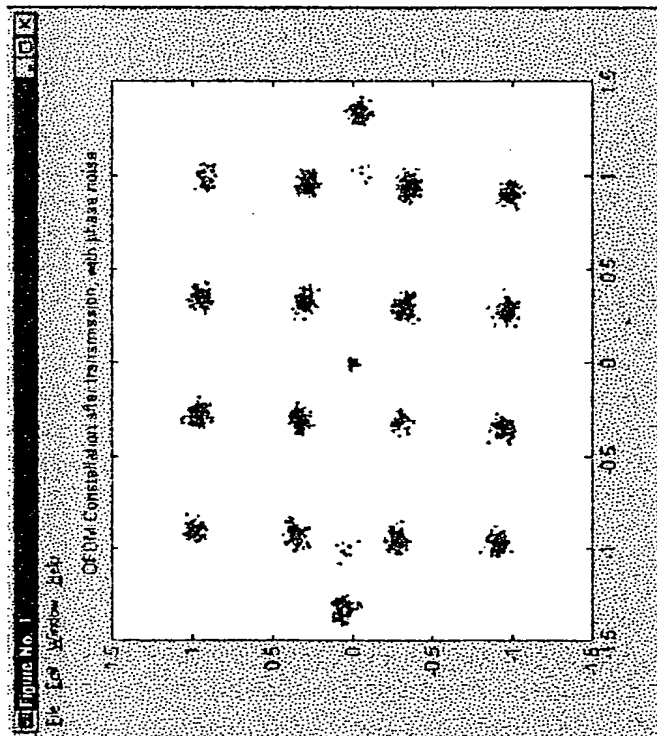
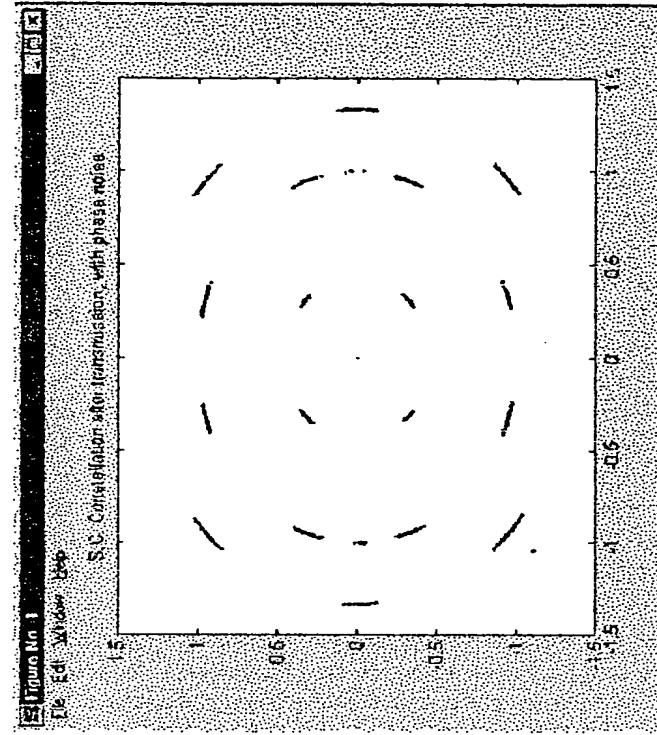


Fig. 19



Influence of linear group-delay distortion on the performance of the three modulation schemes.

Fig. 20



Phase Noise Effect on

S.C

Phase Noise Effect on

OFDM

Fig. 21

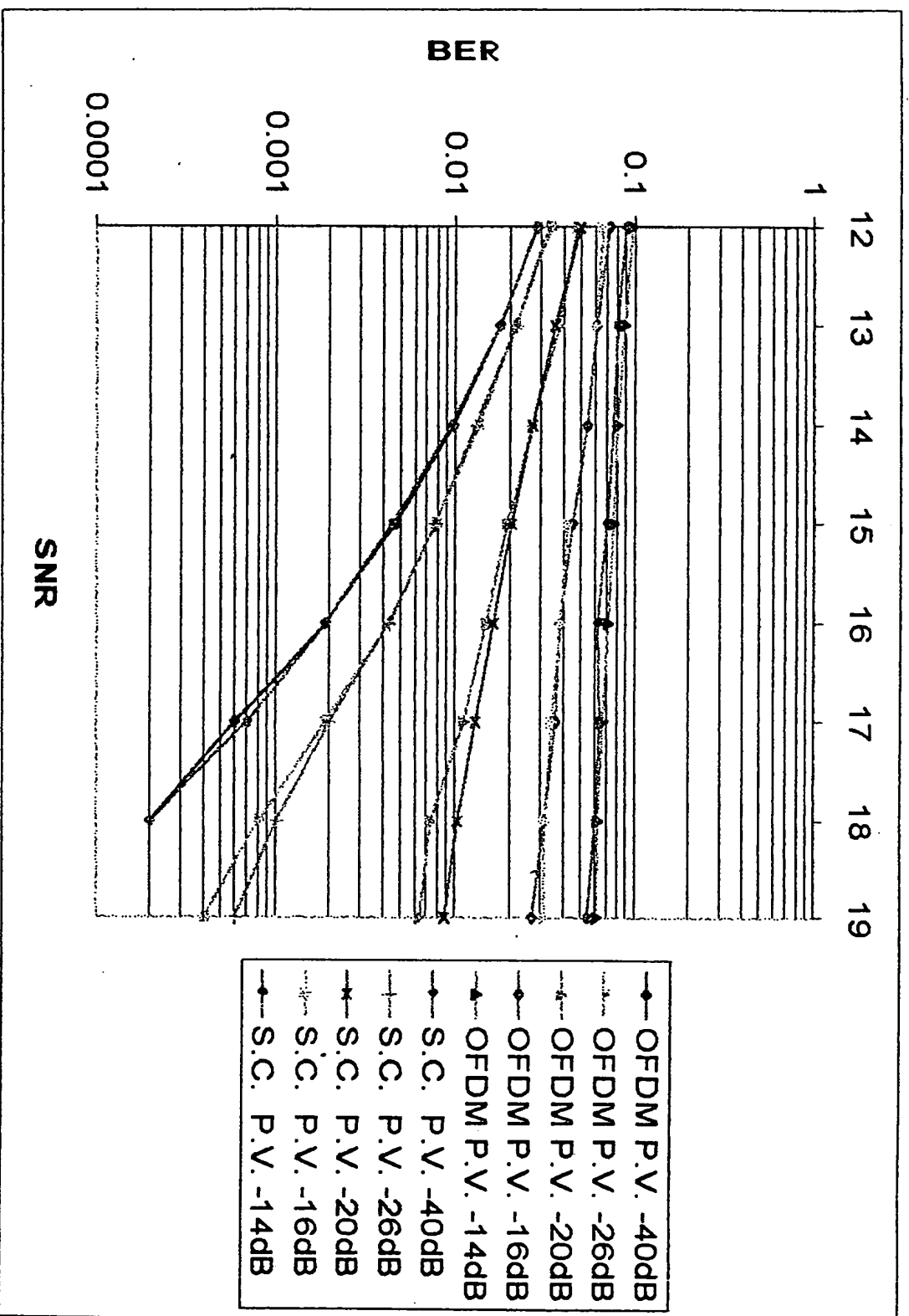


Fig. 22

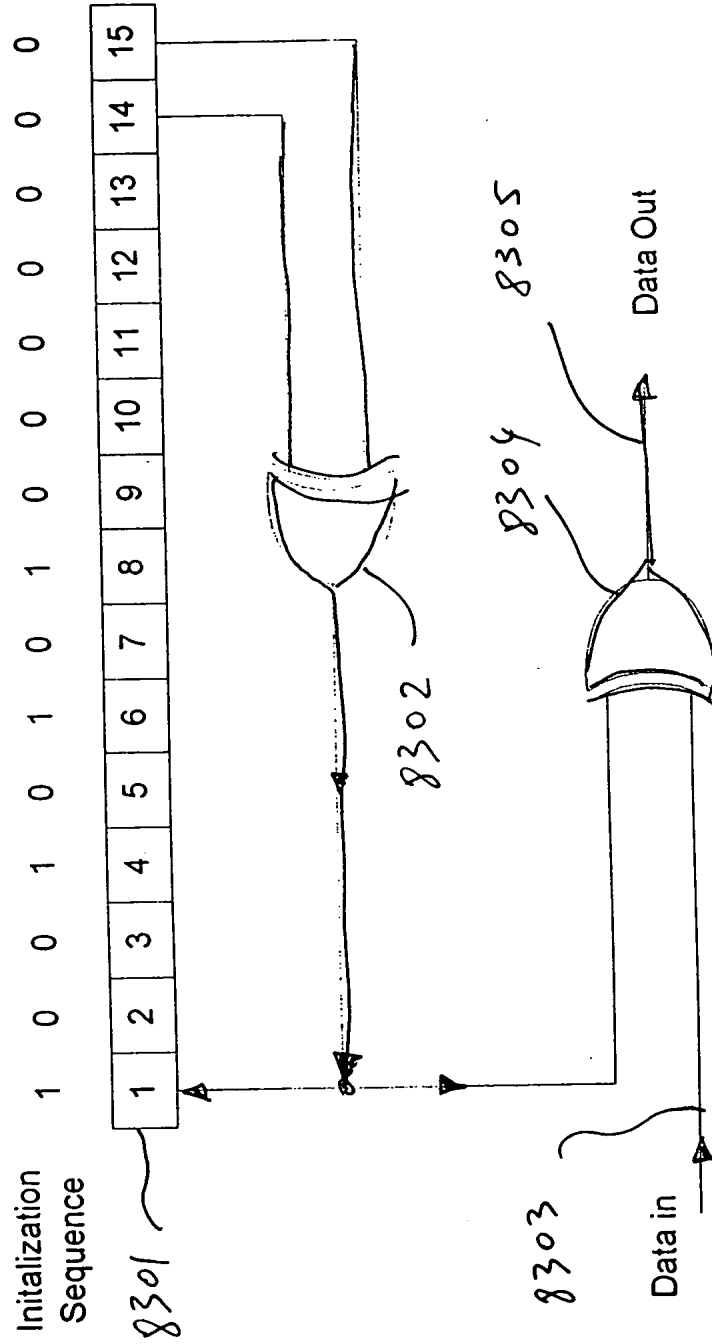


Fig. 23

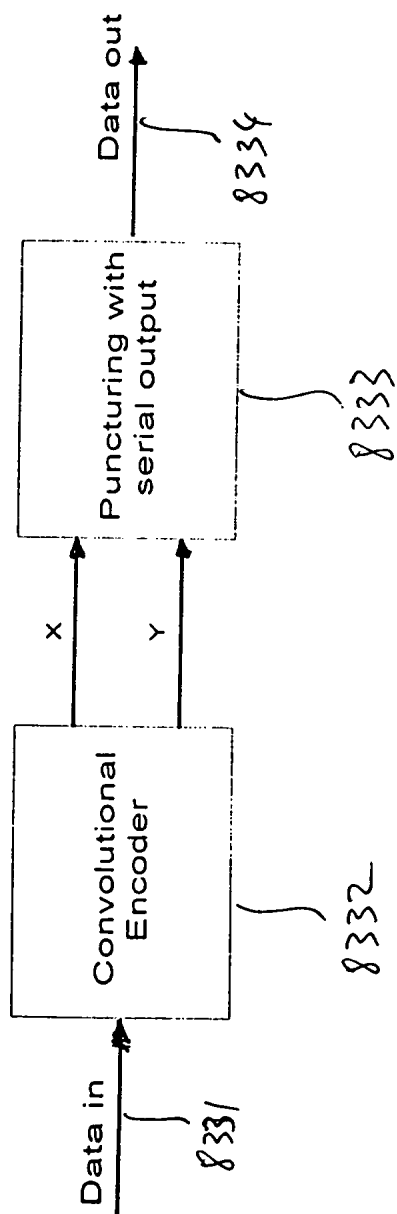


Fig. 24

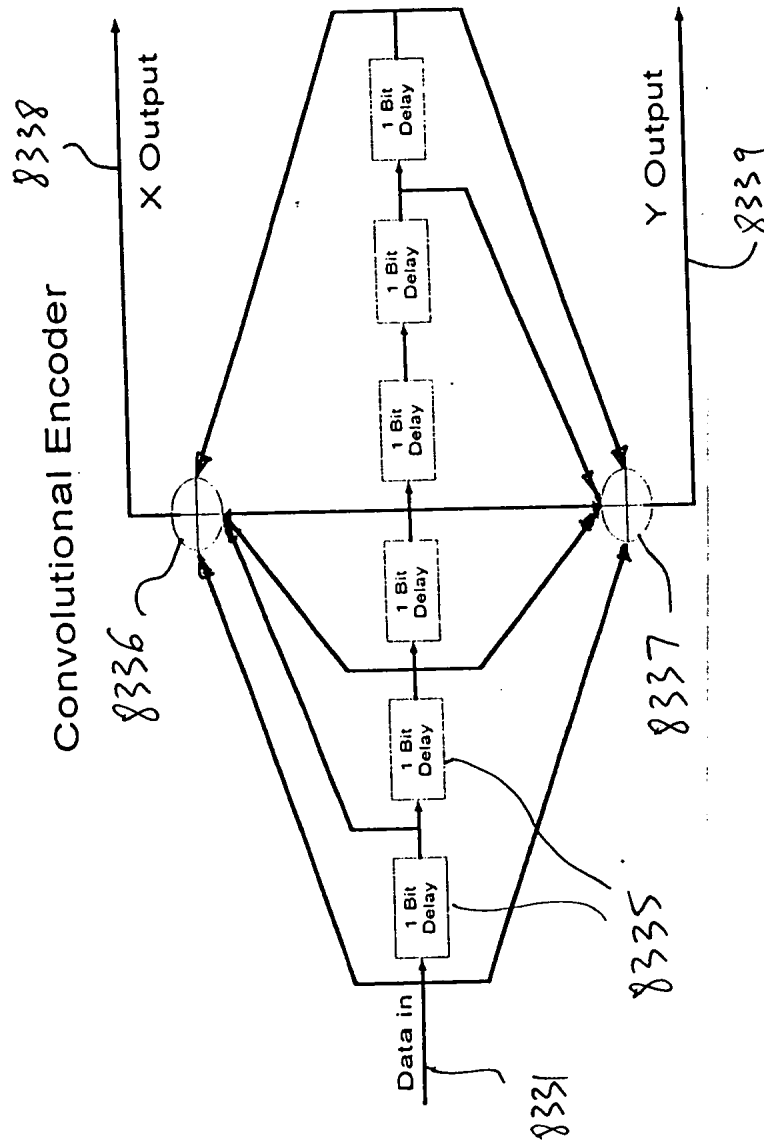


Fig. 25

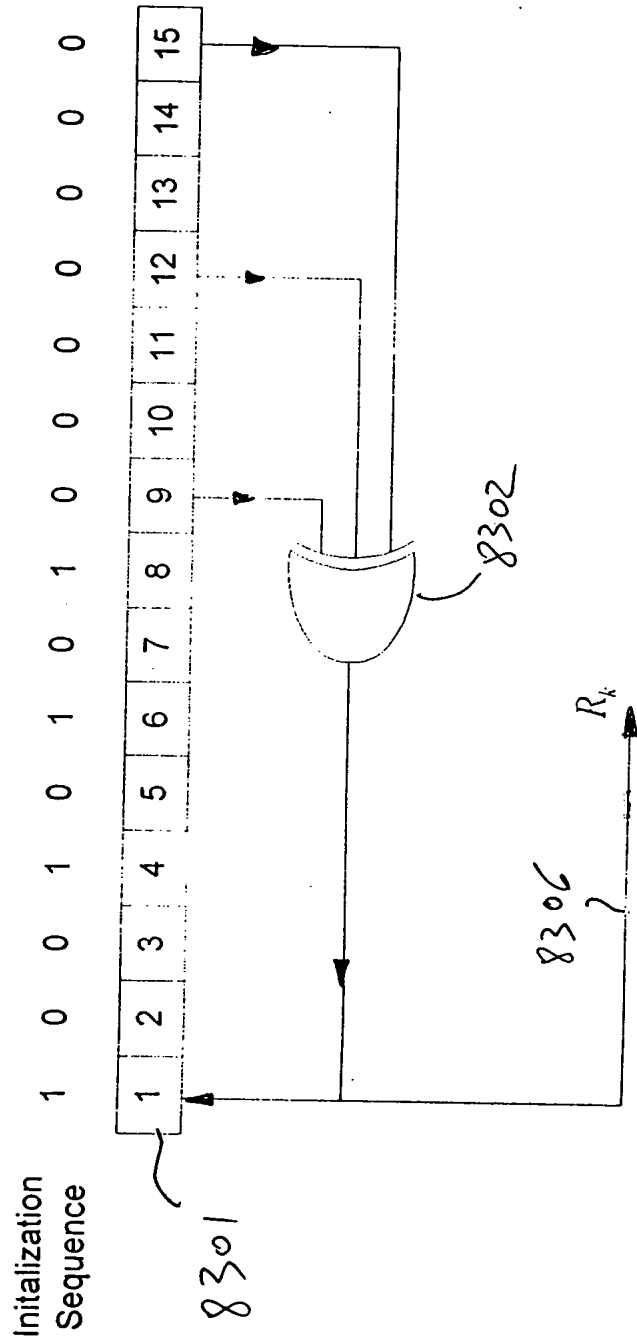


Fig. 26

004220" / E242960

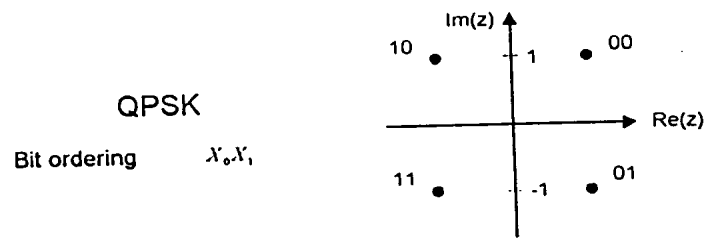


Fig. 27

16QAM

Bit ordering X_0, X_1, X_2, X_3

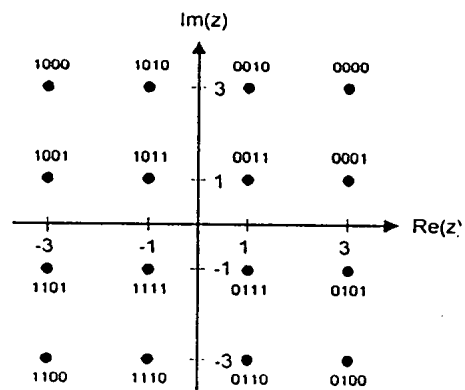


Fig. 28

64QAM
Bit ordering $X_0, X_1, X_2, X_3, X_4, X_5$

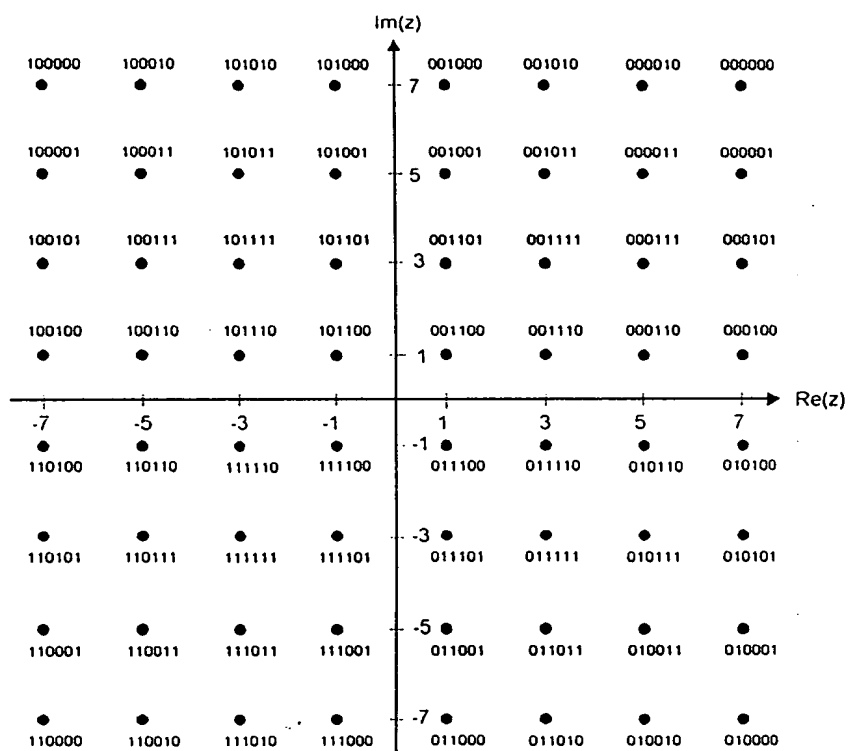


Fig. 29

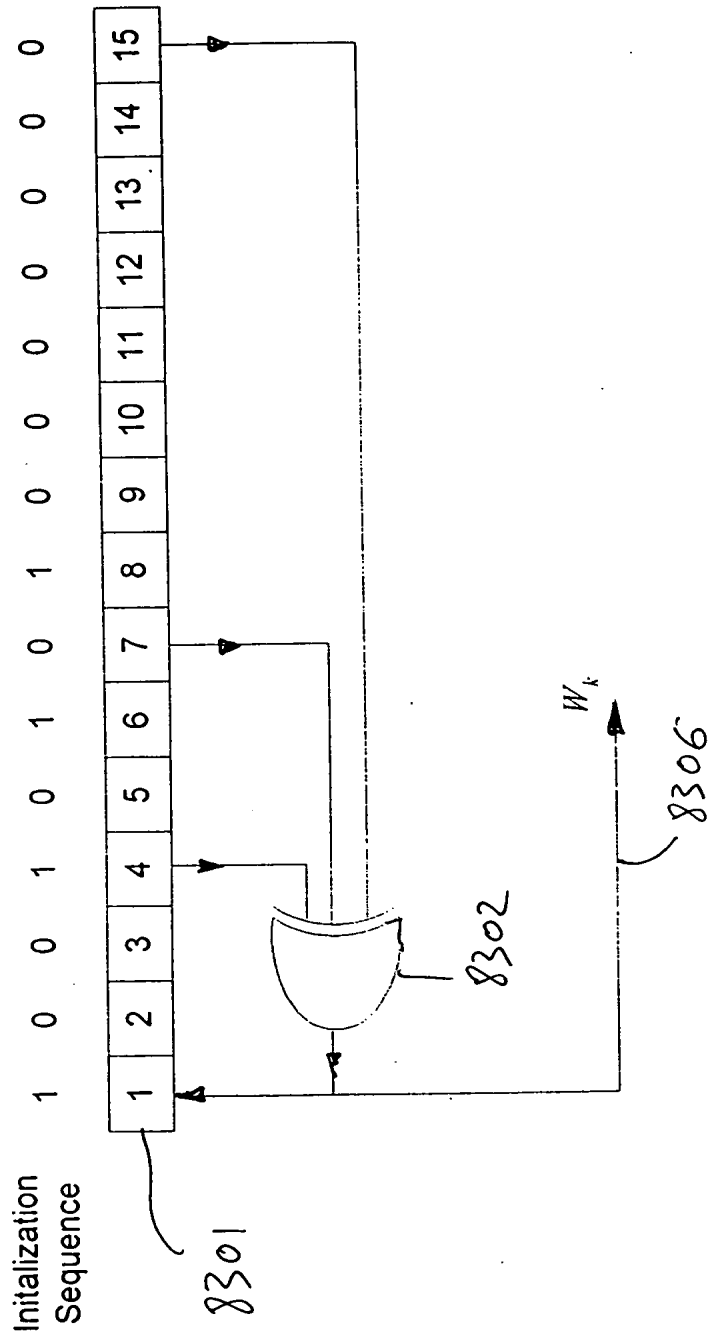


Fig. 30

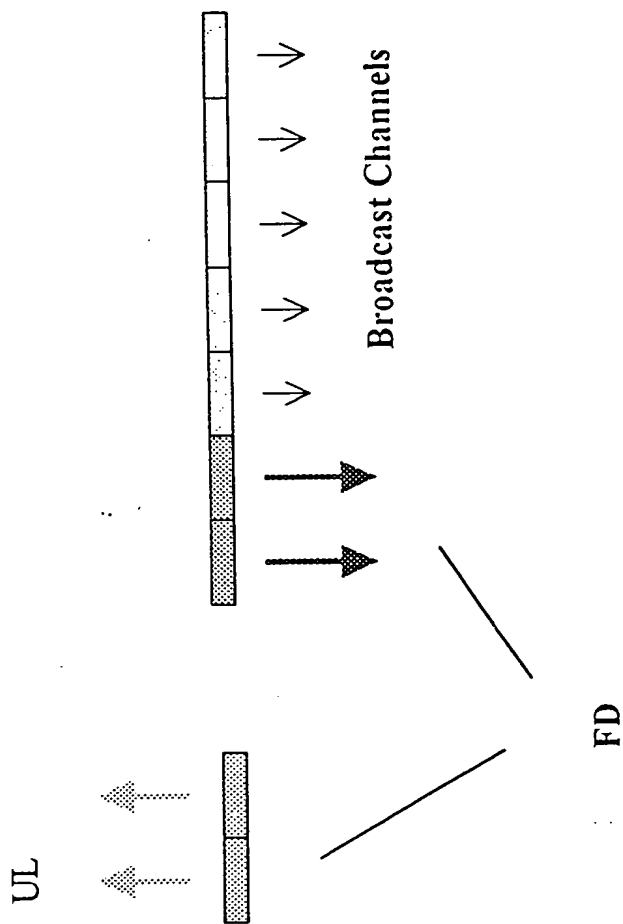


Fig. 31

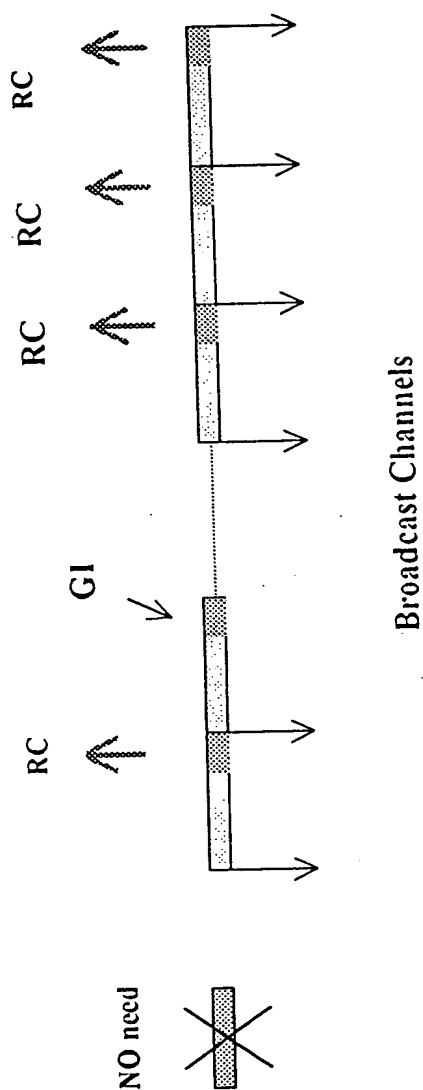


Fig. 32

004220" 2E242950

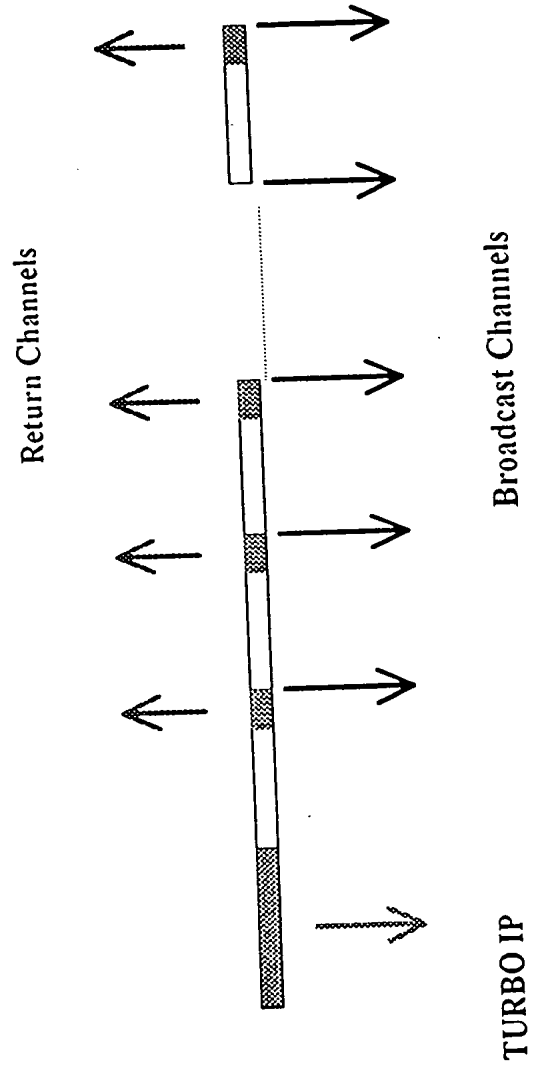


Fig. 33

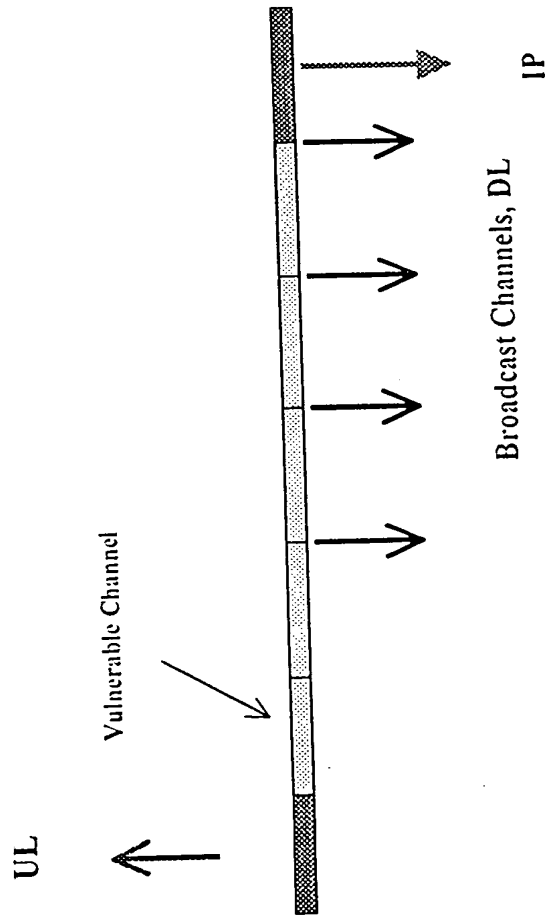


Fig. 34

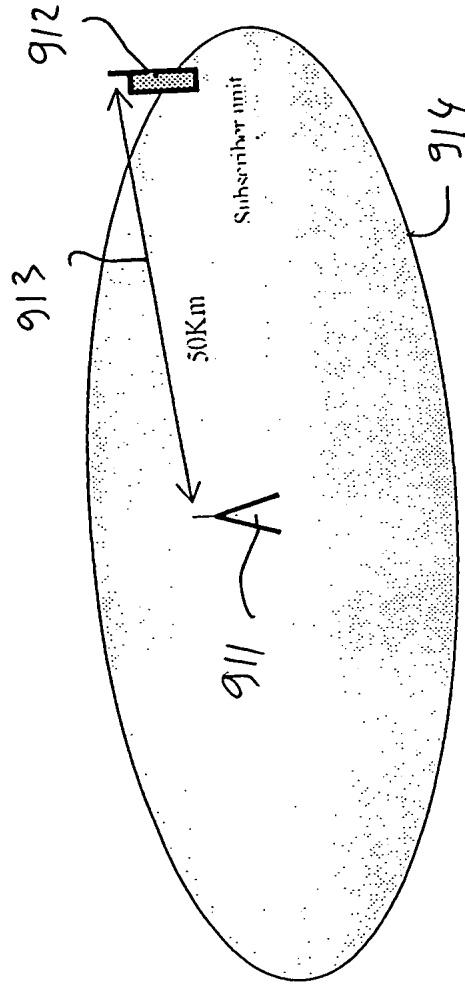


Fig. 35

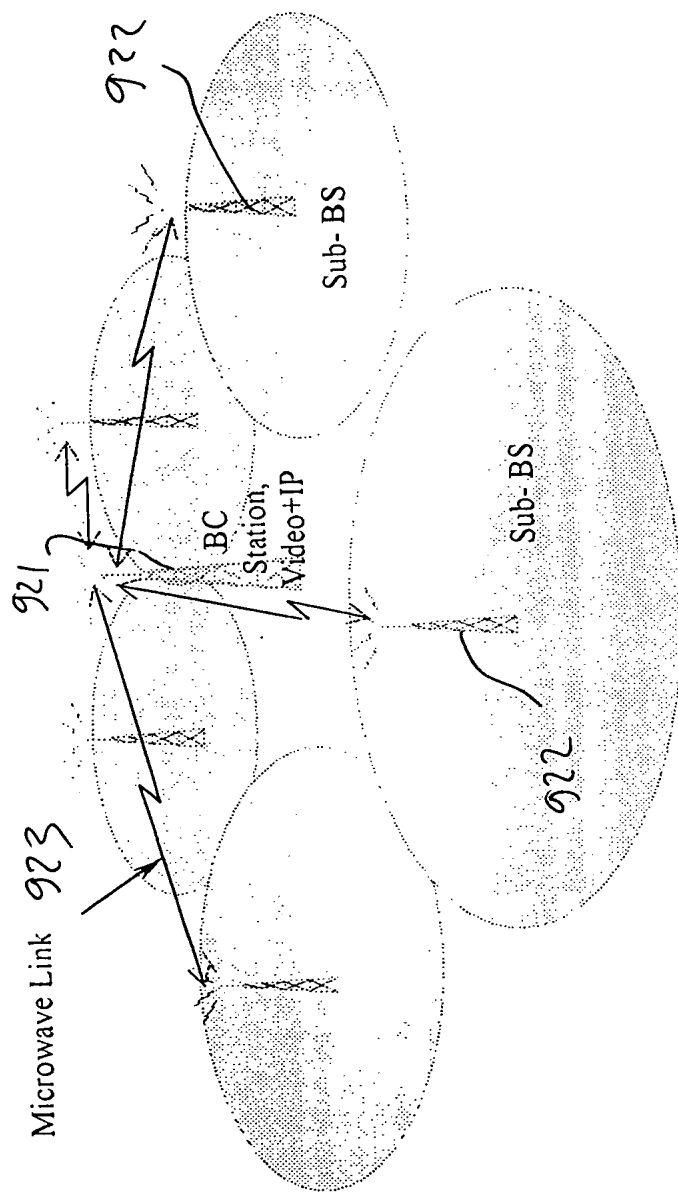


Fig. 36

004220" / E242360

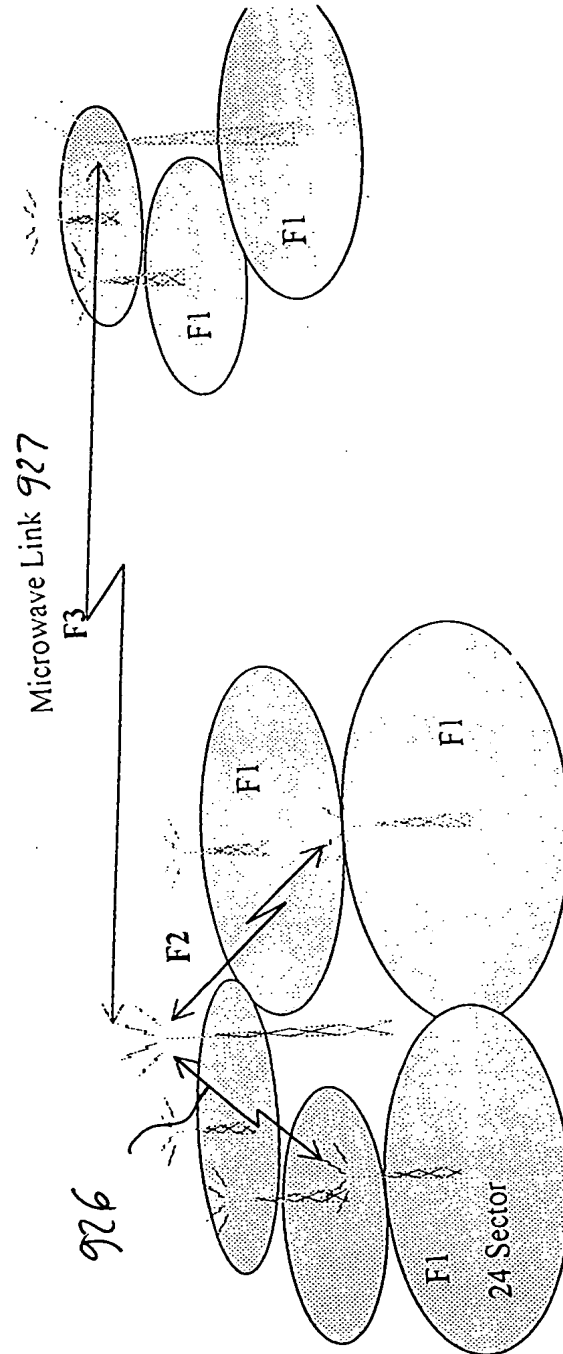


Fig. 37

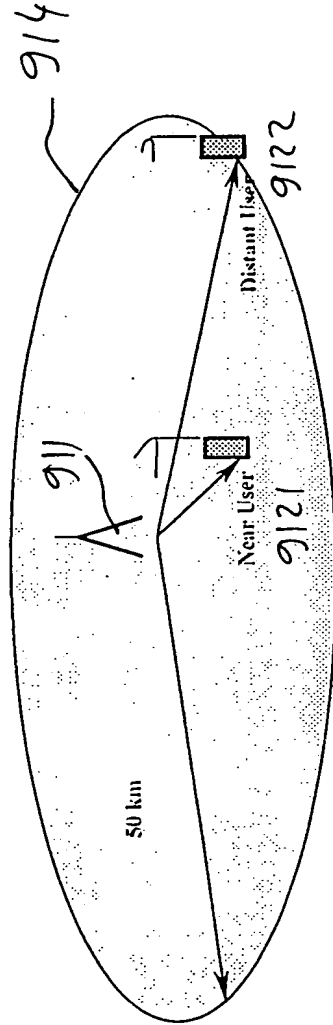


Fig. 38

004220" / E242950

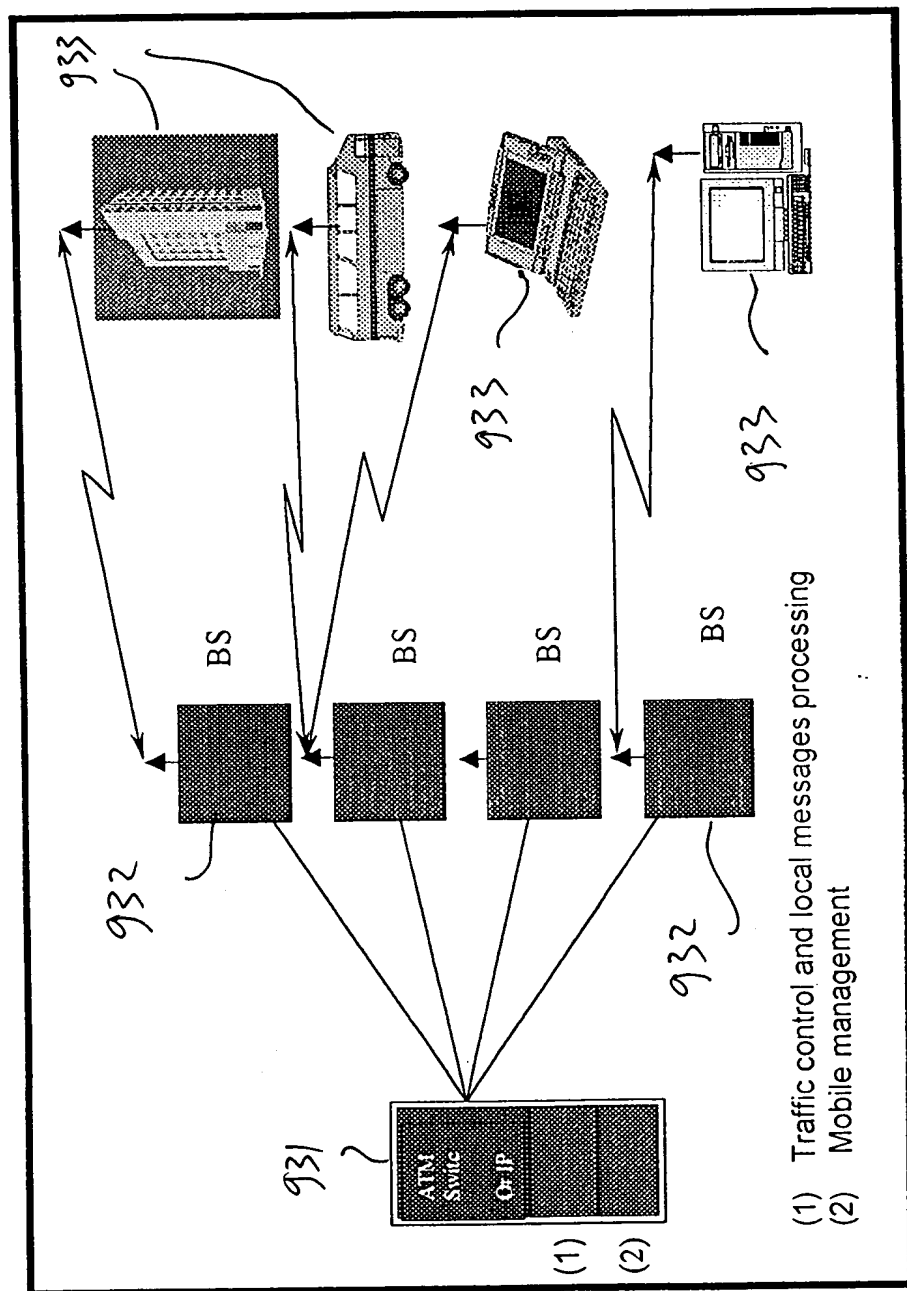


Fig. 39

The Same Data for Mobile and Fixed Users

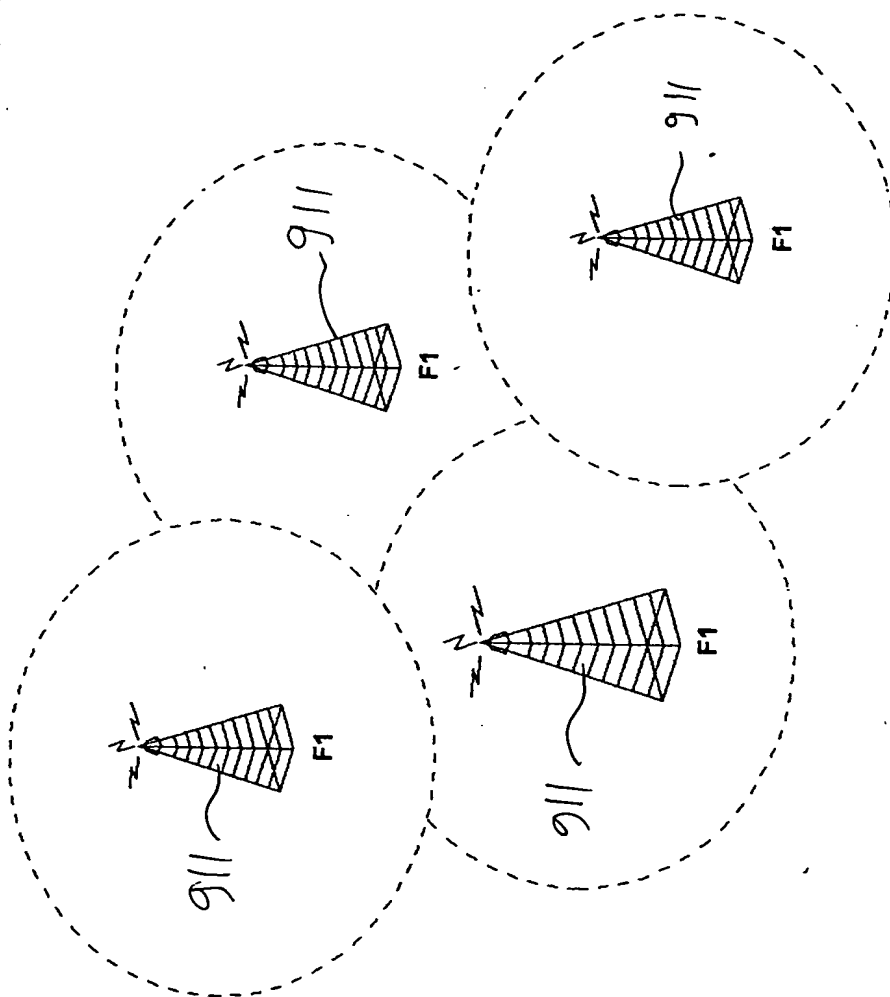


Fig. 40

The Same Data for Mobile and Fixed Users
Where There is a Problem of Coverage, Smaller Cells are Used

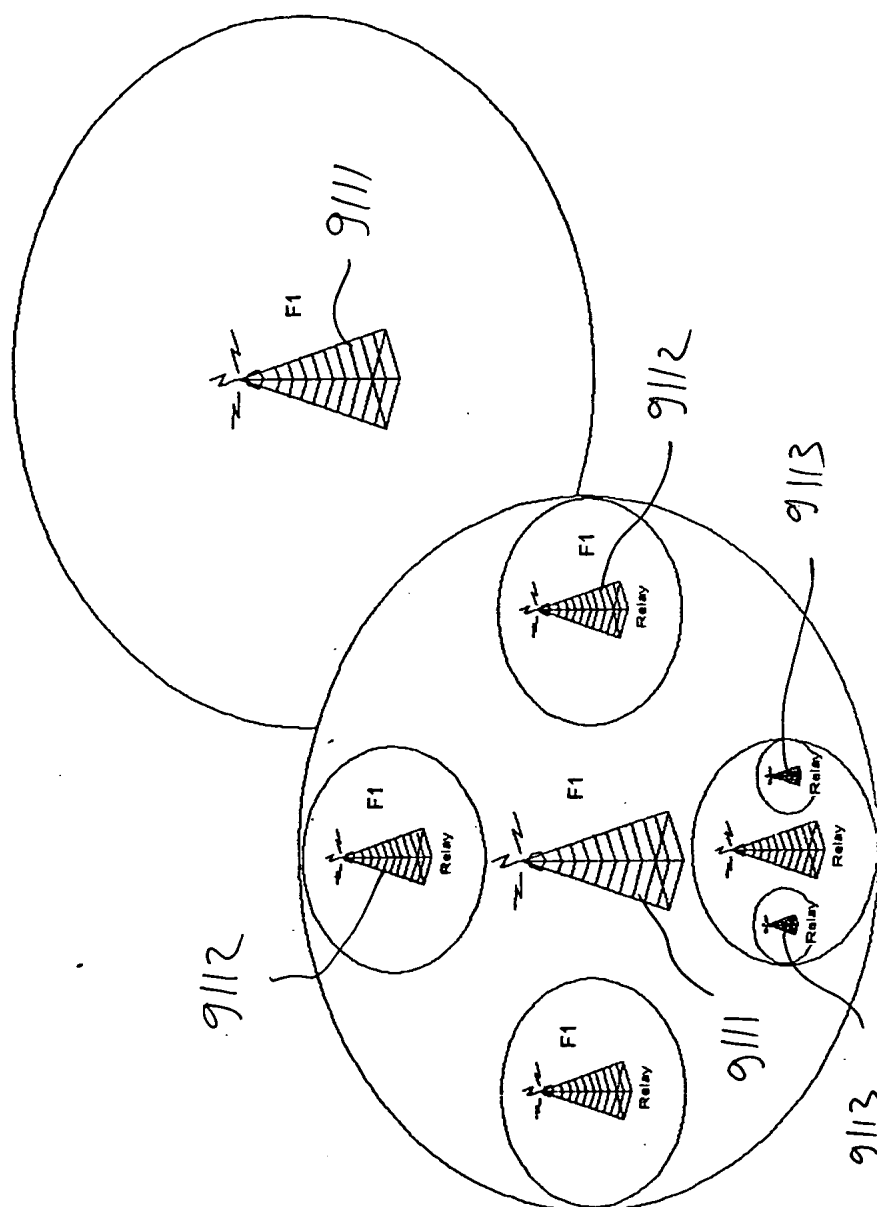


Fig. 41

- Each SFN Enables the Users to Receive Transmissions From Any B.S.
- Users Transmission can be Received by some B.S., While the main B.S. can use MRC.

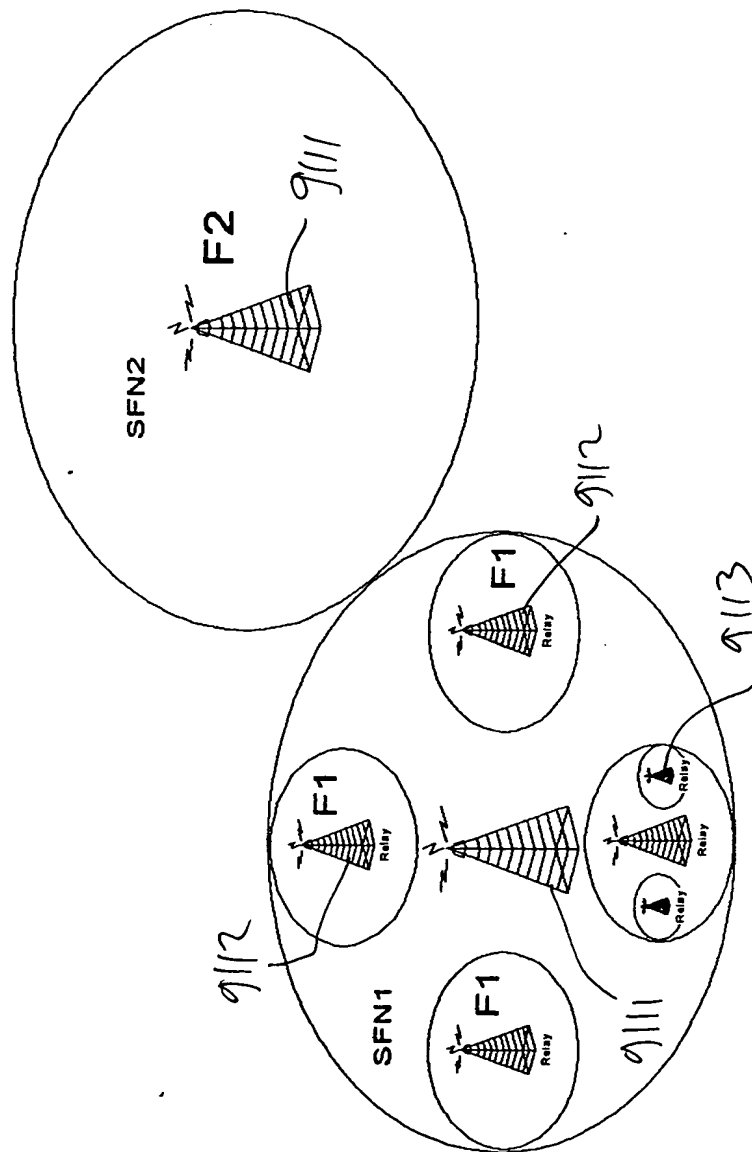


Fig. 42

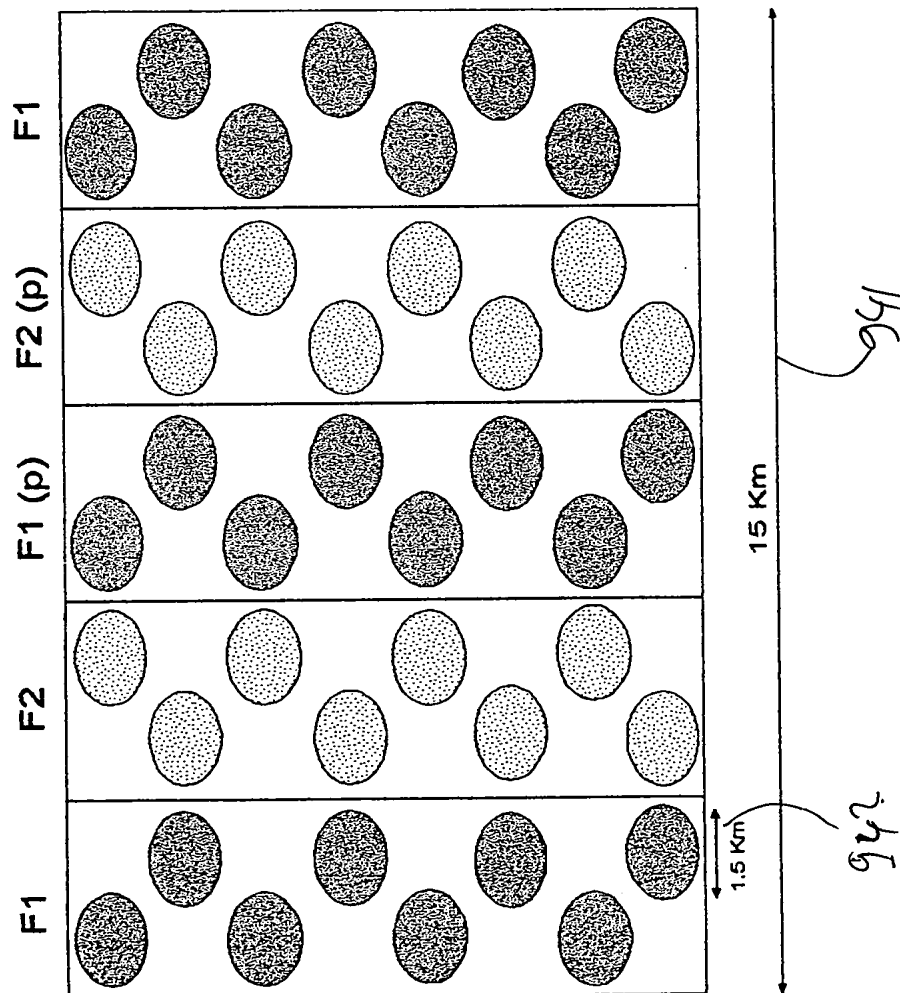


Fig. 43

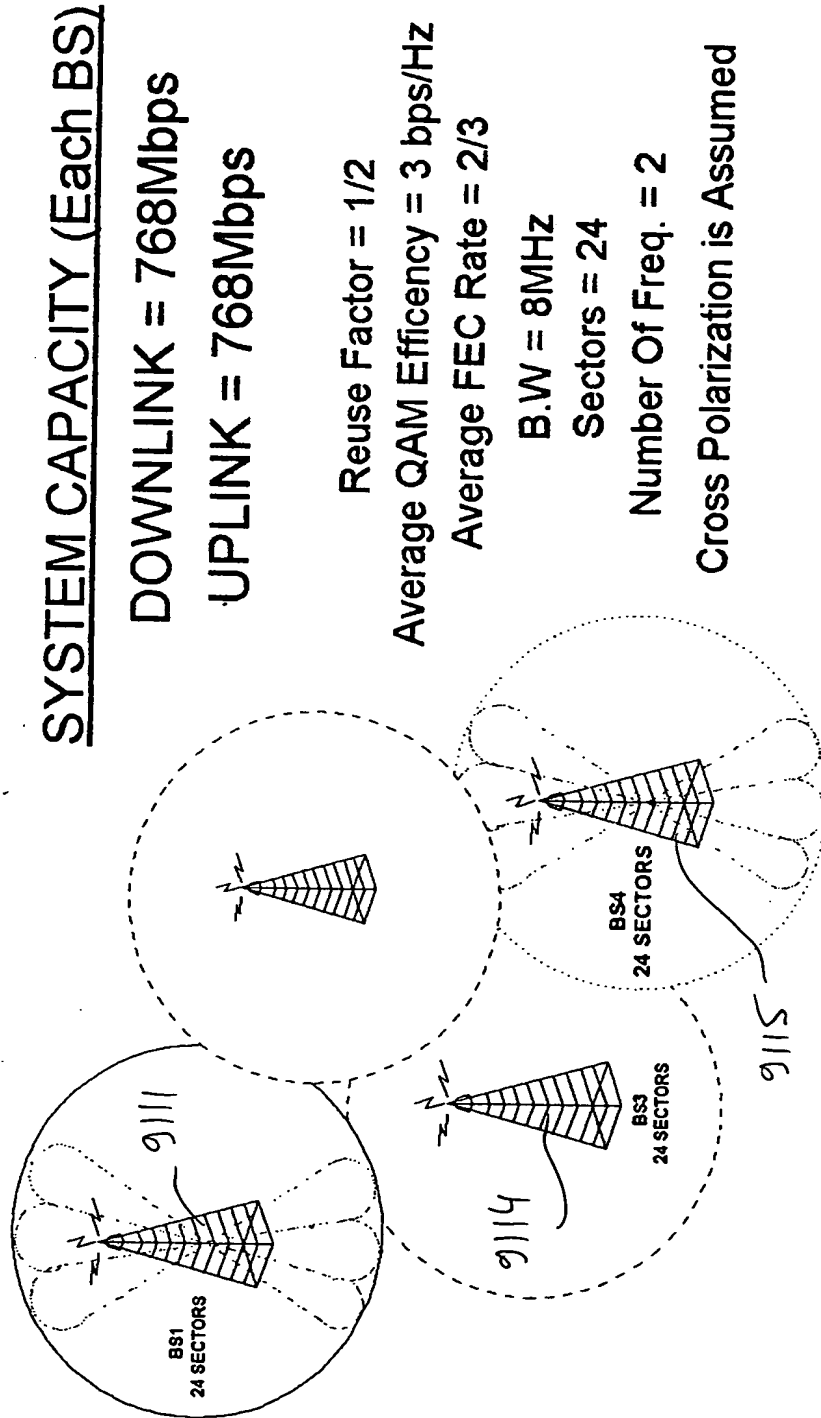


Fig. 44

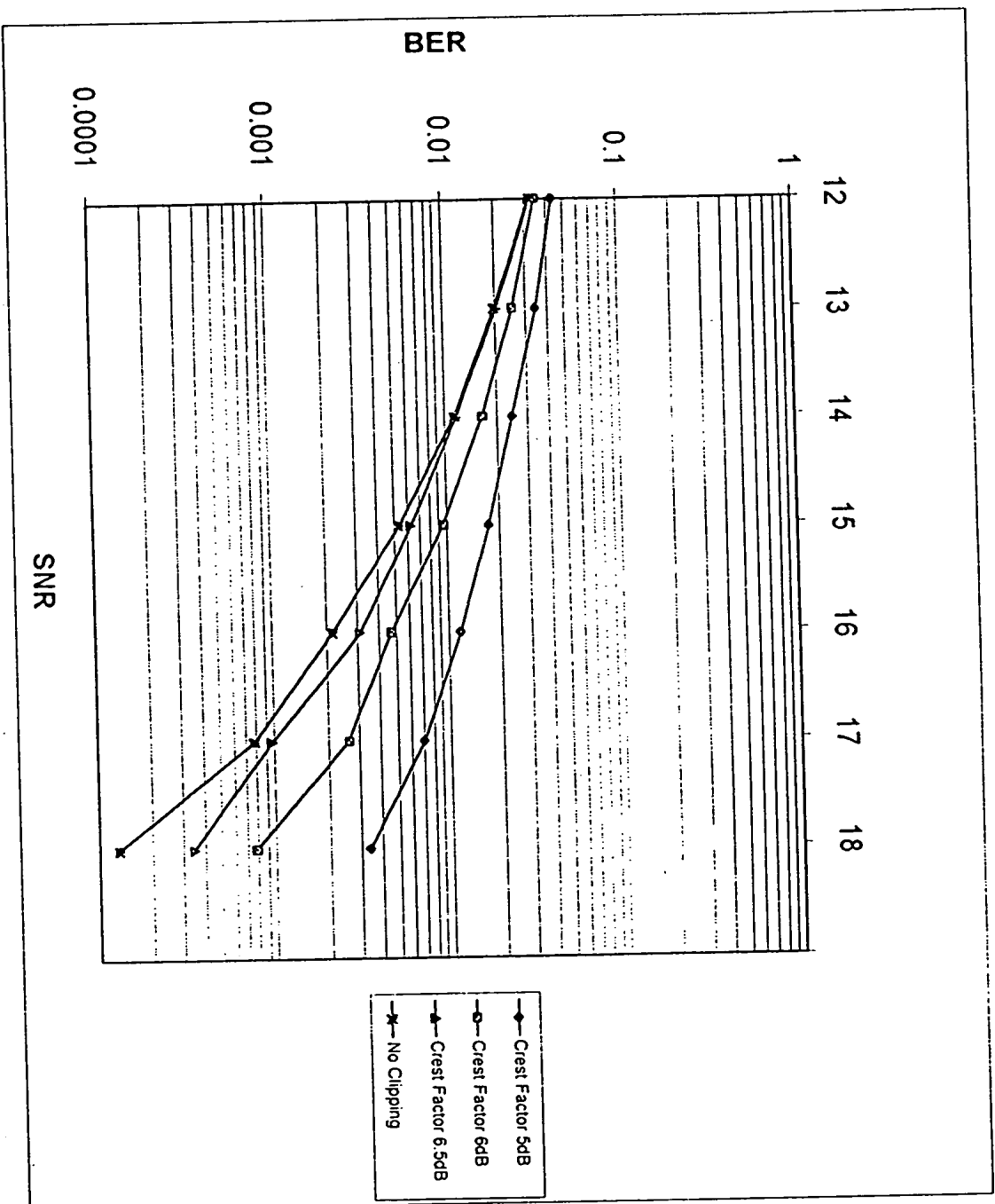


Fig. 45

090624237.072400

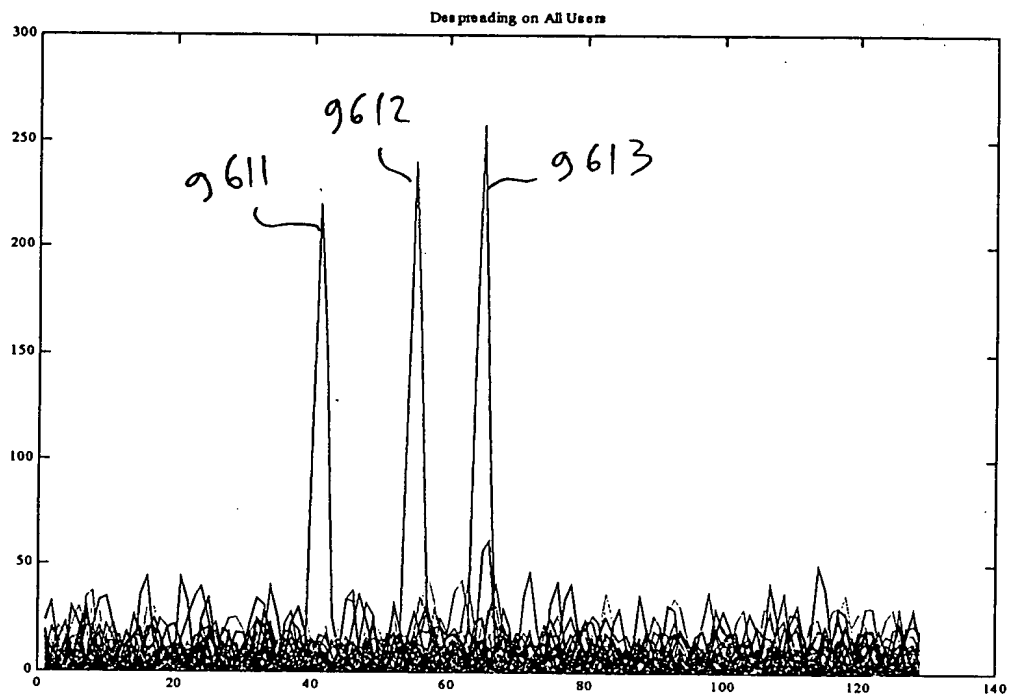


Fig. 46

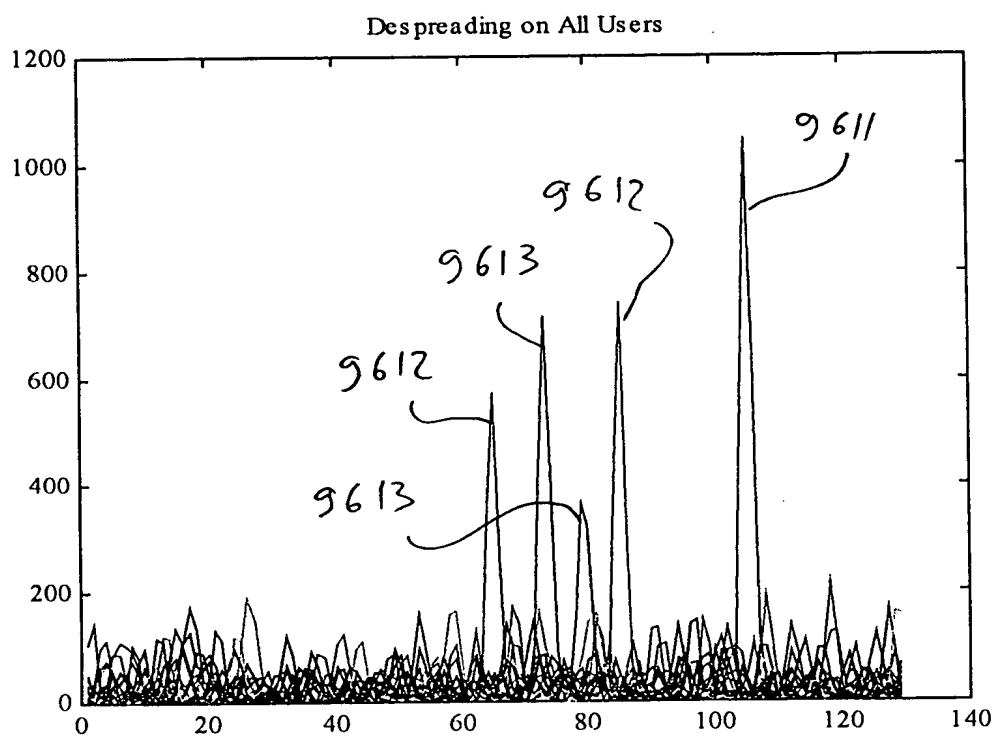


Fig. 47

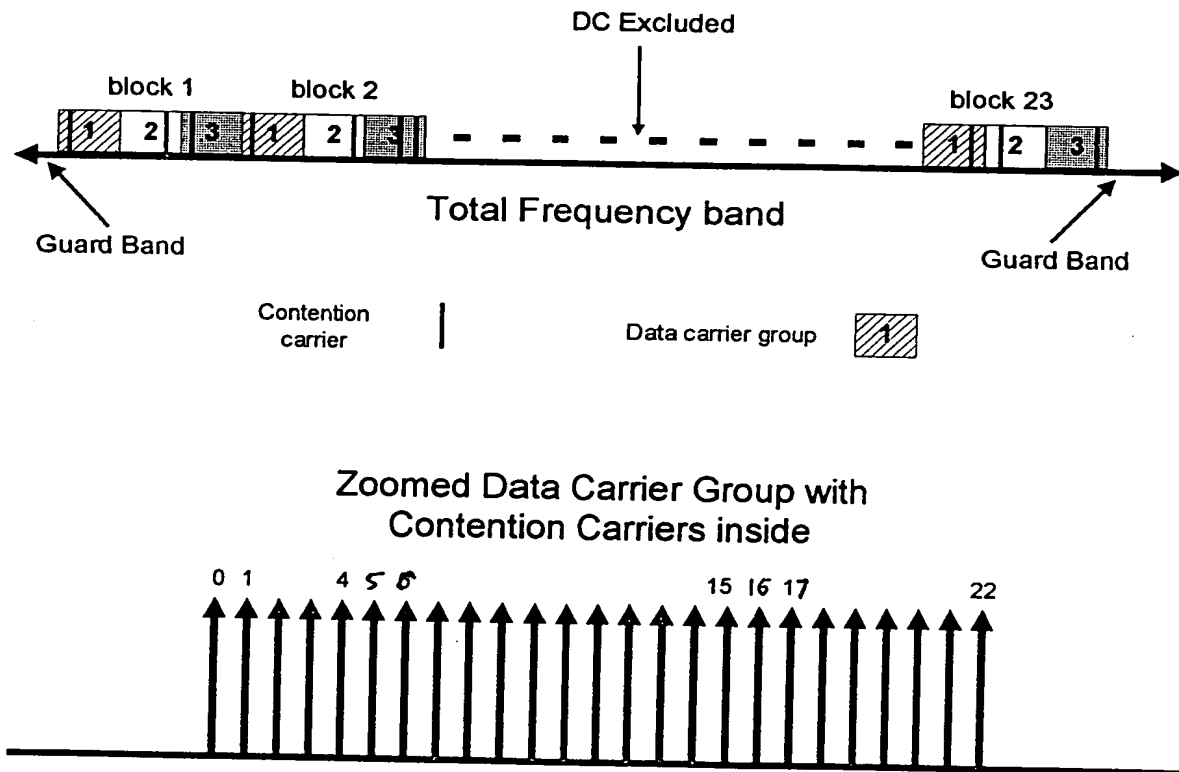


Fig. 48